General Motors Upfitter Integration

BODY BUILDER MANUAL

FOR

2018 CHEVROLET LOW CAB FORWARD

MEDIUM DUTY 3500-4500

ELECTRICAL SECTION

General Motors Upfitter Integration

Note to User:
As part of our mission to provide an up-to-date website that includes detailed Body Builder Manuals, Technical Bulletins, and Best Practice Manuals, we are now using sectional excerpts directly from the General Motors Service Information publications for our Electrical Body Builder Manuals.

You will note that the section numbers are non-sequential as we have provided only those that are believed to be the most pertinent to the Upfitter community and best suited to their needs.*

This new usage of the Service Information provides the opportunity for us to remain consistent with the changes that take place throughout the model year and to provide you updated information in a more timely fashion.

**** If you would like to have access to all of the electrical Service Information, please apply for a subscription from ACDelco at http://acdelcotechconnect.com/html/tss_tech_esi.jsp***

Table of Contents

General Information 1-1
General Information 1-3
HVAC 2-1
Heating and Ventilation 2-3
Air Conditioning 2-5
Cab and Chassis Electrical 3-1
Cab and Chassis Electrical 3-3
INDEX INDEX-1

BLANK

Section 1

General Information

General Information 1-3
Introduction 1-3
Model Identification 1-3
Vehicle Identification 1-3
RPO Code List 1-3
Engine Identification 1-5

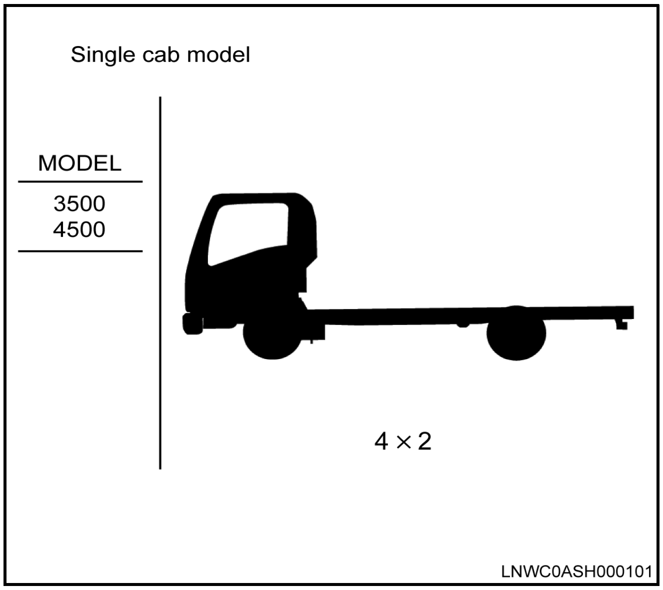
BLANK

General Information

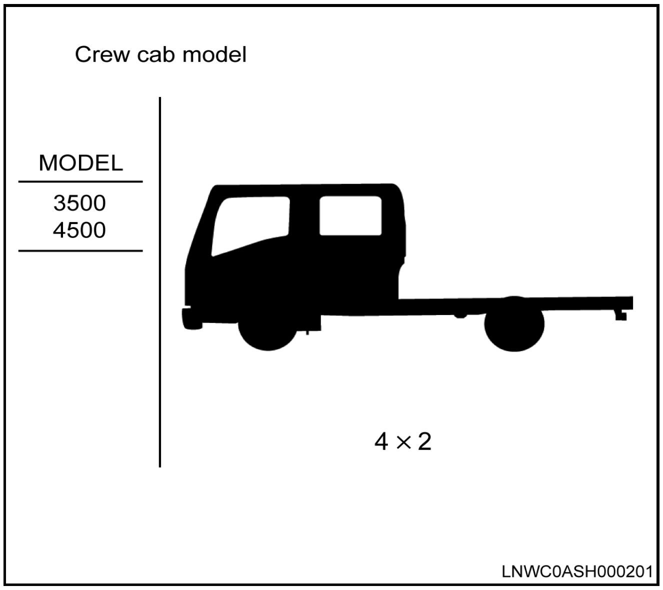
Introduction

Model Identification

The model covered in this manual are referred to as a 3500/4500.



4551980

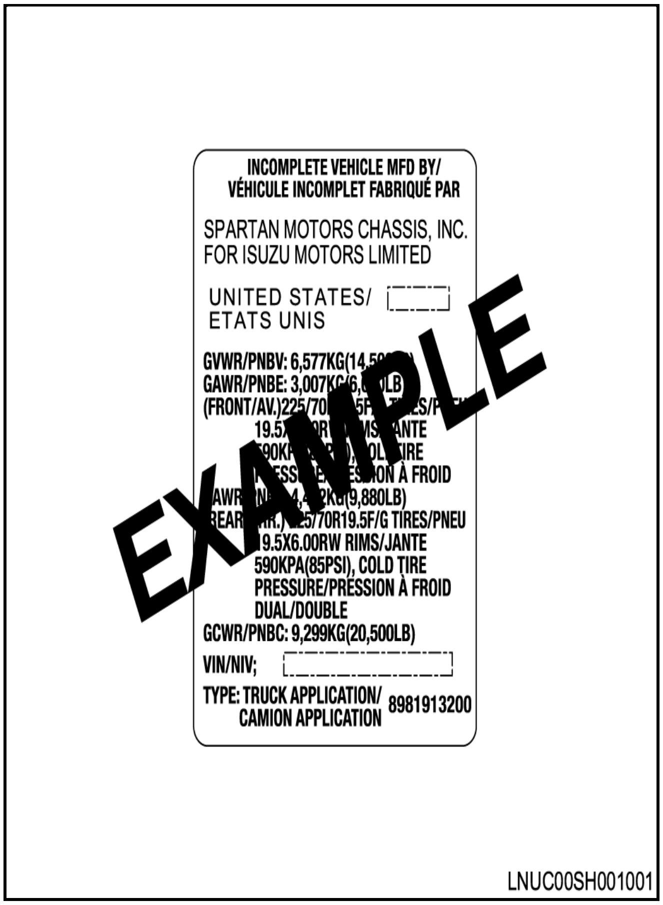


4554007

Vehicle Identification

The VIN and Weight Rating Plate (1) lists the manufacturer, gross vehicle weight for the vehicle, maximum front end weight at ground, maximum rear end weight at ground, and the VIN (vehicle identification number). In the crew cab this plate is attached to the driver's side pillar above the shoulder belt bracket. In the single cab this plate is attached to the inside of the driver's side door frame.

The vehicle identification number is a legal identifier of your vehicle. It not only appears on the VIN plate, but also on the Vehicle Certificates of Title and Registration. The vehicle identification number specifically identifies a vehicle by code.


INCOMPLETE VEHICLE MFD BY/
VÉHICULE INCOMPLET FABRIQUÉ PAR

SPARTAN MOTORS CHASSIS, INC.
FOR ISUZU MOTORS LIMITED

UNITED STATES/
ETATS UNIS

GVWR/PNBV: 6,577KG(14,5[illegible]
GAWR/PNBE: 3,007K[illegible]6,[illegible]LB)
(FRONT/AV.)225/70[illegible]5F[illegible]ES/P[illegible]
19.5[illegible]0R[illegible]MS[illegible]ANTE
590KP[illegible]P[illegible]), [illegible]OL[illegible]IRE
[illegible]ESSU[illegible]ESSION À FROID
[illegible]AWR[illegible]N[illegible]4,4[illegible]2K[illegible](9,880LB)
[illegible]EAR[illegible]R.)[illegible]25/70R19.5F/G TIRES/PNEU
[illegible]19.5X6.00RW RIMS/JANTE
590KPA(85PSI), COLD TIRE
PRESSURE/PRESSION À FROID
DUAL/DOUBLE
GCWR/PNBC: 9,299KG(20,500LB)
VIN/NIV;
TYPE: TRUCK APPLICATION/
CAMION APPLICATION
8981913200

4554018

RPO Code List

The RPO list contains RPOs available on this model. Also, refer to the Service Parts Identification label for a list of the RPOs used on each specific vehicle.

Option Code	Option Description
062	RATIO-5.12
068	RATIO-5.37
14B	TRIM COMBINATION-CLOTH, VERY DK GRAY (B) (97)
16U	PRIMARY COLOR-EXTERIOR, WHITE (02)152D
1WT	PACKAGE-WT OPTION 1
24J	SEAT BELT COLOR-RED, DRIVER SEAT ONLY
24K	SEAT BELT COLOR-RED, DRIVER AND PASSENGER SEAT
2TA	TIRE FRONT-LT215/85R16 E 115/112 L BW ALS VAR1

Option Code	Option Description
2TB	TIRE FRONT-225/70R19.5F 125/123L BW HWY VAR1
2TC	TIRE FRONT-225/70R19.5 G 125/123 L BW HWY VAR1.
3TA	TIRE REAR-LT215/85R16 E 115/112 L BW ALS VAR1
3TB	TIRE REAR-225/70R19.5F 125/123L BW HWY VAR1
3TC	TIRE REAR-225/70R19.5 G 128/126 L BW HWY VAR1
41U	PRIMARY COLOR-EXTERIOR, BLACK (8555)
46U	PRIMARY COLOR-EXTERIOR, DK GREEN (02)
47U	PRIMARY COLOR-EXTERIOR, DK BLUE MET (02)
69I	INTERIOR TRIM-VERY DK PEWTER (01)
74U	PRIMARY COLOR-EXTERIOR, CARDINAL RED (02)
86U	PRIMARY COLOR-EXTERIOR, YELLOW (02)
9B9	GOVERNOR-ELECTRONIC SPEED SENSOR - 70 MPH
9C2	GOVERNOR-ELECTRONIC SPEED SENSOR - 65 MPH
9D2	GOVERNOR-ELECTRONIC SPEED SENSOR - 58 MPH
9E2	GOVERNOR-ELECTRONIC SPEED SENSOR - 68 MPH
9W8	COVER-SEAT PROTECTOR
A1F	SEAT-FRT BKT, HIGH BACK, DRIVER & PASS
A1G	SEAT-FRT BKT, HIGH BACK, DRIVER ONLY AIR SUSPENSION & PASS
A31	WINDOW-POWER OPERATED, ALL DOORS (DO NOT USE ON NEW/MAJOR PROGRAMS)
ATG	LOCK CONTROL, ENTRY-REMOTE ENTRY, STANDARD RANGE
AU3	LOCK CONTROL-SIDE DR, ELEC
C42	HVAC SYSTEM-HEATER, OUTSIDE AIR, DELUXE
C60	HVAC SYSTEM-AIR CONDITIONER FRT, MAN CONTROLS
C7J	GVW RATING-13,000 LBS
C7L	GVW RATING-12,000 LBS
C7P	GVW RATING-16,000 LBS
C7S	GVW RATING-14,500 LBS
C7X	GVW RATING-17,950 LBS
CD7	WIPER SYS WINDSHIELD-PULSE, WET ARM
CSM	PLANT CODE-CHARLOTTE, MI, USA
DB5	MIRROR O/S-LH & RH, WIDE LOAD, INTEGRAL ARM
DB6	MIRROR O/S-LH & RH, WIDE LOAD, ELEC REMOTE CONTROL, LIGHTED, HEATED, INTEGRAL ARM
DB8	MIRROR O/S-LH & RH, WIDE LOAD, HEATED, INTEGRAL ARM

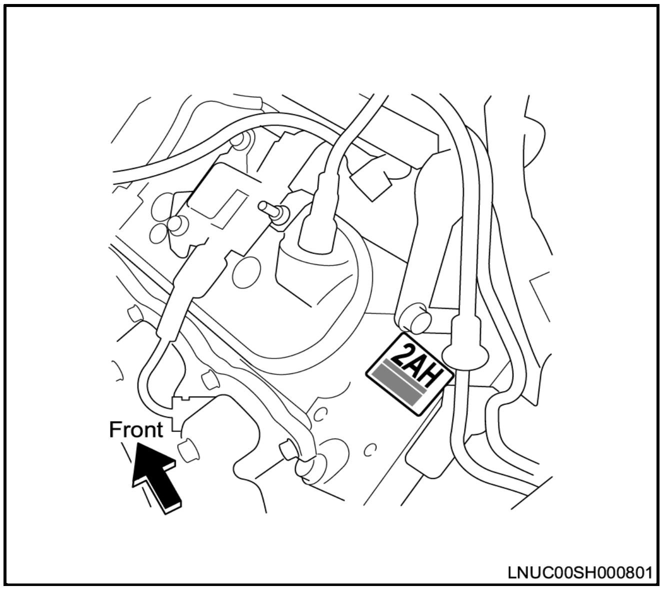
Option Code	Option Description
E01	STEPS-ASSIST
E8C	EQUIPMENT-CAN INTERFACE CONVERTER
EB4	WHEELBASE-109 INCH
EF7	COUNTRY-UNITED STATES OF AMERICA (USA)
EL5	WHEELBASE-212 INCH
EM2	WHEELBASE-200 INCH
FHO	VEHICLE FUEL-GASOLINE E10
FHX	VEHICLE FUEL-DIESEL B20
FL5	AXLE FRONT-6,830 LB (3,098 KG)
FL6	AXLE FRONT-7,275 LB (3,299 KG)
FL9	SUSPENSION FRONT-6,830 LB (3,098 KG), TAPERED LEAF
FM2	SUSPENSION FRONT-8,440 LB, 3,828 KG) TAPERED LEAF
FNJ	WHEELBASE-132.5 INCH / 3,365 MM
FNW	WHEELBASE-176 INCH
FU3	SUSPENSION REAR-9,880 LB (4,481 KG), MULTILEAF
FU4	SUSPENSION REAR-12,900 LB (5,851 KG), MULTILEAF
FU5	SUSPENSION REAR-14,308 LB (6,490 KG), MULTILEAF
FU6	SUSPENSION REAR-14,550 LB (6,559 KG), MULTILEAF
FUJ	PLANT CODE-FUJISAWA, JAPAN
FWH	WHEELBASE-150 INCH/3,815 MM
G7M	EQUIPMENT-AIR DEFLECTOR - OVER CAB
G86	AXLE-LIMITED SLIP
HNF	INTERIOR TRIM CONFIG-CLOTH, V DK PEWTER
GZG	GVW RATING-19,500 LBS
HNF	INTERIOR TRIM CONFIG-CLOTH, V DK PEWTER
HS6	AXLE REAR-11,020 LB (4,998 KG)
HS9	AXLE REAR-14,550LB (6,599 KG)
I17	ENGINEERING YEAR-2017
I1B	ENGINE-DIESEL, 4 CYL, 5.2L, 4HK1TC 215HP
IR7	TRANSMISSION-AUTO 6 SPD, HMD, A465
IX0	TRANSMISSION-AUTO 6 SPD, HMD, A460
IX2	SWITCH-DOME LAMP, REAR BODY
IZ3	ENGINE-DIESEL, 4 CYL, 3.0L, 4JJ1-TC 150HP
J69	BRAKE PARKING-MECHANICALLY OPERATED
JE5	BRAKE SYSTEM-PWR, ANTILOCK, FRT & RR WHL
K05	HEATER ENG-BLOCK
K34	CRUISE CONTROL-AUTOMATIC, ELECTRONIC
K40	ENGINE BRAKE-EXHAUST

Option Code	Option Description
K45	AIR CLEANER-HEAVY DUTY
K63	GENERATOR-110 AMP
KG3	GENERATOR-145 AMP
KG9	GENERATOR-140 AMP
KPG	CAP-DEF FILL, LOCKING
KPJ	ENGINE SHUTDOWN-AUTOMATIC
KPK	HEATER-OIL PAN
KQJ	ENGINE SHUTDOWN-AUTOMATIC, 3 MINUTE TIMER
KQN	ENGINE SHUTDOWN-AUTOMATIC, 5 MINUTE TIMER
KQS	CAP-DEF FILL, LOCKING, KEYED ALIKE
L96	ENGINE-GAS, 8 CYL, 6.0L, SFI, E85 MAX, IRON, GM
LC8	ENGINE-LPG/CNG, 8 CYL, V8, 6.0L, SFI, GEN 1, GMNA
MAH	MARKETING AREA-US, PUERTO RICO/USVI
MTE	PROVISIONS-FIRE EXTINGUISHER / SAFETY REFLECTOR KIT MOUNTING
MYD	TRANSMISSION-AUTO 6 SPD, HMD, 6L90
N33	STEERING COLUMN-TILT TYPE
N3R	STEERING WHEEL-URETHANE
N4C	CERTIFICATION-EMISSION, USA 50 STATE
N4E	EMISSION SYSTEM-USA, 50 STATE
NB5	EXHAUST SYSTEM-SINGLE
NC2	EXHAUST SYSTEM-SINGLE HORIZONTAL
NH2	FUEL TANK-113L, 30 GAL
NL7	FUEL TANK-FRONT, 25 GAL
NLX	TANK-FUEL, LH MOUNT, 33 GAL ADDITIONAL
NPV	EXHAUST SYSTEM-SINGLE VERTICAL MUFF & TAILPIPE CAB MOUNTED
PTO	ENGINE CONTROL-POWER TAKE OFF (PTO) CONTROLS
PTX	ENGINE CONTROL-POWER TAKE-OFF (PTO), CONTROLS - NONE
PWJ	WHEEL-16 X 6.0, K, STEEL, DESIGN 1
PWK	WHEEL-19.5 X 6.0, K STEEL, DESIGN 1
RQ2	VEHICLE APPLICATION-TRUCK SERVICE
RWL	CHASSIS DRIVE LINE-REAR WHEEL DRIVE (RWD)
TP6	BATTERY-750 CCA, 12V, (SINGLE)
TP7	BATTERY-750 CCA, 12V, (DUAL)
UAD	SPEAKER SYSTEM-2, FRONT, BASE
UDH	DISPLAY INSTRUMENT-DRIVER INFO (ONE COLOR GRAPHIC)
UIY	RADIO-AM STEREO/FM STEREO, CD, AUX INPUT, USB PORT
UIZ	RADIO-AM STEREO/FM STEREO, CD, AUX INPUT, USB PORT, BLUETOOTH
UL5	RADIO-(NONE)
UZF	ALARM B/U-ELECTRICAL
V22	GRILLE-RADIATOR, CHROME
V8D	VEHICLE STATEMENT-US
VT7	OWNERS MANUAL-ENGLISH LANGUAGE
VXT	VEHICLE TYPE-INCOMPLETE
WMH	VIN MODEL YEAR-2017
X88	MARKET BRAND-CHEVROLET
XWL	MIRROR PROVISIONS-102" MIRROR BRACKET
ZY1	COLOR COMBINATION-SOLID

Engine Identification

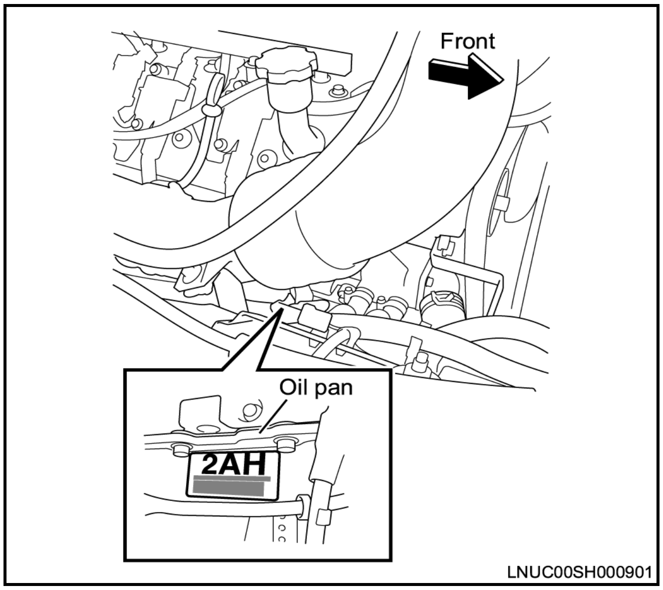
The engine serial number is located on the left-side rear part of engine block and the right-side front part of the oil pan.

Left-Side Rear



4554023

Right-Side Front


Front
Oil pan
2AH
LNUC00SH000901

4554025

Section 2

HVAC

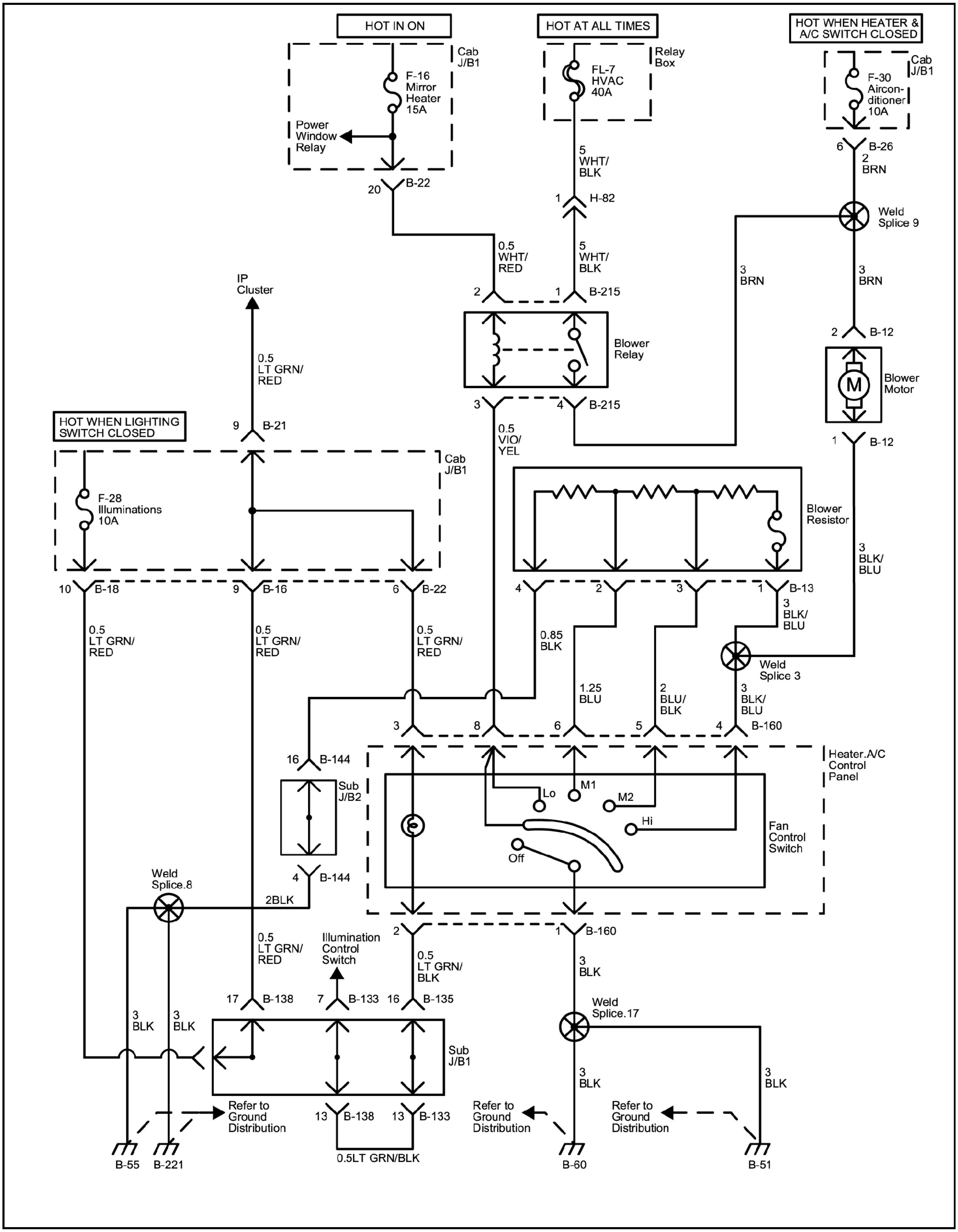
Heating and Ventilation 2-3
  Schematic and Routing Diagrams 2-3
    HVAC Schematics 2-4
Air Conditioning 2-5
    Air Conditioning System Schematic 2-6

BLANK

Heating and Ventilation

Schematic and Routing Diagrams

HVAC Schematics

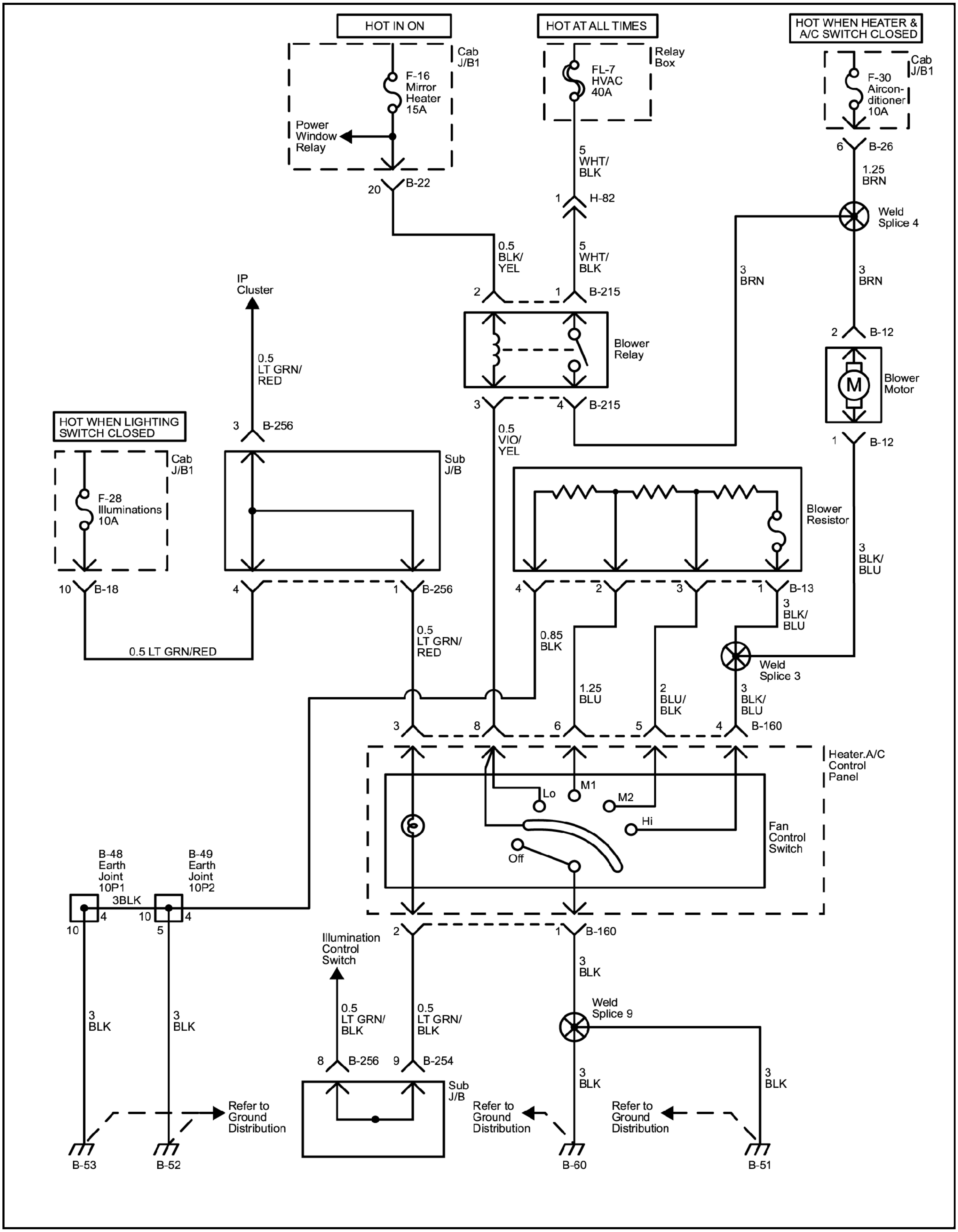

HOT IN ON
HOT AT ALL TIMES
HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-16 Mirror Heater 15A
Power Window Relay
B-22
20
Relay Box
FL-7 HVAC 40A
5 WHT/ BLK
1
H-82
Cab J/B1
F-30 Aircon- ditioner 10A
6
B-26
2 BRN
Weld Splice 9
0.5 WHT/ RED
5 WHT/ BLK
3 BRN
3 BRN
IP Cluster
2
1
B-215
2
B-12
0.5 LT GRN/ RED
Blower Relay
Blower Motor
M
3
4
B-215
1
B-12
HOT WHEN LIGHTING SWITCH CLOSED
9
B-21
0.5 VIO/ YEL
Cab J/B1
F-28 Illuminations 10A
Blower Resistor
3 BLK/ BLU
10
B-18
9
B-16
6
B-22
4
2
3
1
B-13
3 BLK/ BLU
0.5 LT GRN/ RED
0.5 LT GRN/ RED
0.5 LT GRN/ RED
0.85 BLK
Weld Splice 3
1.25 BLU
2 BLU/ BLK
3 BLK/ BLU
3
8
6
5
4
B-160
16
B-144
Heater.A/C Control Panel
Sub J/B2
Lo
M1
M2
Hi
Fan Control Switch
Off
4
B-144
Weld Splice.8
2BLK
2
1
B-160
0.5 LT GRN/ RED
Illumination Control Switch
0.5 LT GRN/ BLK
3 BLK
17
B-138
7
B-133
16
B-135
Weld Splice.17
3 BLK
3 BLK
Sub J/B1
3 BLK
3 BLK
Refer to Ground Distribution
13
B-138
13
B-133
Refer to Ground Distribution
Refer to Ground Distribution
B-55
B-221
0.5LT GRN/BLK
B-60
B-51

4554038

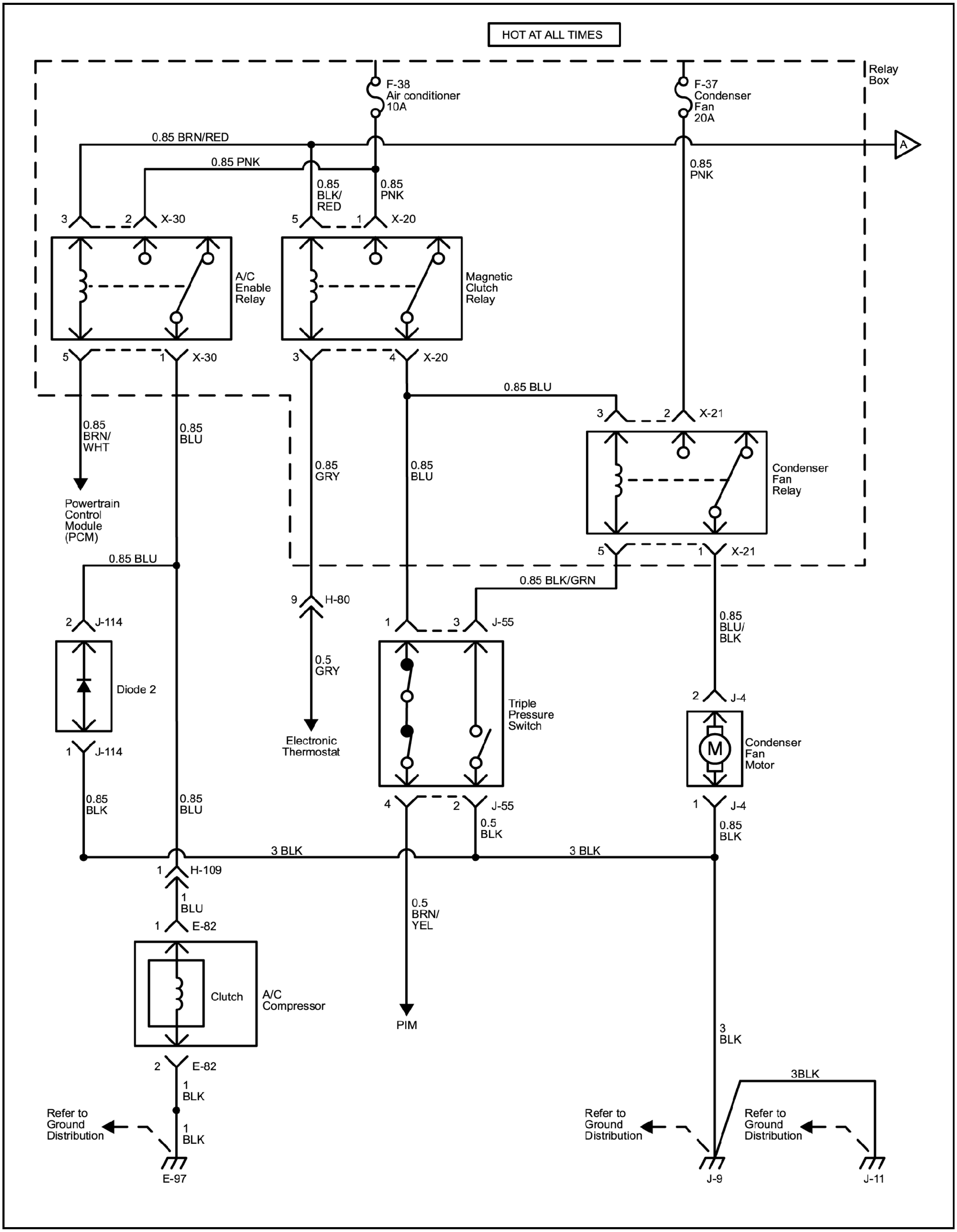
Air Conditioning

Schematic and Routing Diagrams

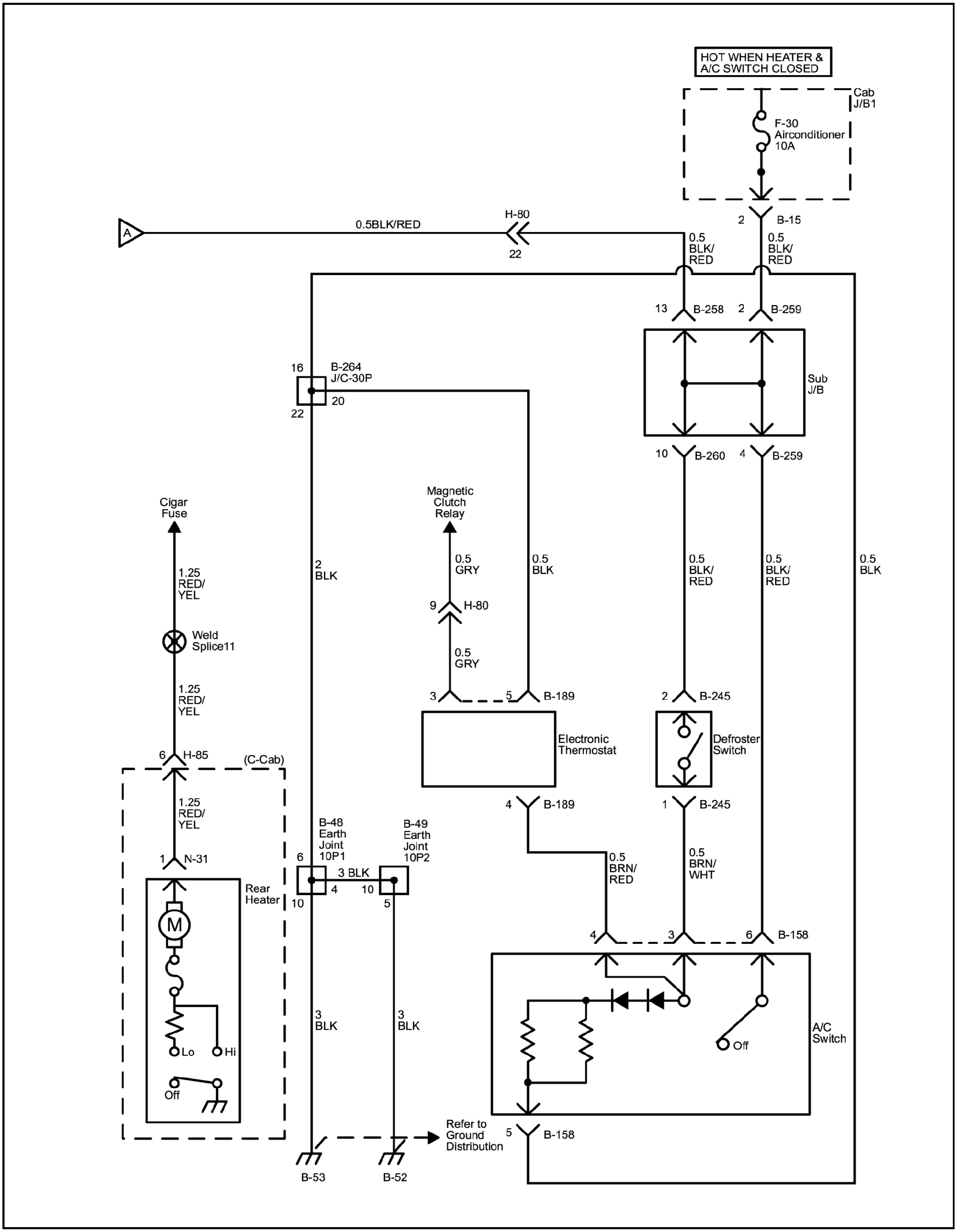
Air Conditioning System Schematic


HOT IN ON
Cab J/B1
F-16 Mirror Heater 15A
Power Window Relay
20
B-22
HOT AT ALL TIMES
Relay Box
FL-7 HVAC 40A
5 WHT/BLK
1
H-82
5 WHT/BLK
HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Aircon-ditioner 10A
6
B-26
1.25 BRN
Weld Splice 4
3 BRN
3 BRN
2
B-12
Blower Motor
M
1
B-12
IP Cluster
0.5 LT GRN/RED
0.5 BLK/YEL
2
1
B-215
Blower Relay
3
4
B-215
0.5 VIO/YEL
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-28 Illuminations 10A
3
B-256
Sub J/B
Blower Resistor
3 BLK/BLU
10
B-18
4
1
B-256
4
2
3
1
B-13
3 BLK/BLU
0.5 LT GRN/RED
0.85 BLK
0.5 LT GRN/RED
Weld Splice 3
1.25 BLU
2 BLU/BLK
3 BLK/BLU
3
8
6
5
4
B-160
Heater.A/C Control Panel
Lo
M1
M2
Hi
Off
Fan Control Switch
B-48 Earth Joint 10P1
B-49 Earth Joint 10P2
3BLK
4
10
4
10
5
2
1
B-160
Illumination Control Switch
3 BLK
Weld Splice 9
3 BLK
3 BLK
0.5 LT GRN/BLK
0.5 LT GRN/BLK
8
B-256
9
B-254
Sub J/B
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-53
B-52
B-60
B-51

4554446


HOT AT ALL TIMES
Relay Box
F-38
Air conditioner
10A
F-37
Condenser
Fan
20A
0.85 BRN/RED
0.85 PNK
0.85 BLK/RED
0.85 PNK
0.85 PNK
A
3
2
X-30
5
1
X-20
A/C Enable Relay
Magnetic Clutch Relay
5
1
X-30
3
4
X-20
0.85 BLU
3
2
X-21
Condenser Fan Relay
0.85 BRN/WHT
0.85 BLU
0.85 GRY
0.85 BLU
Powertrain Control Module (PCM)
0.85 BLU
5
1
X-21
0.85 BLK/GRN
9
H-80
2
J-114
Diode 2
1
J-114
0.5 GRY
Electronic Thermostat
1
3
J-55
Triple Pressure Switch
4
2
J-55
0.85 BLU/BLK
2
J-4
Condenser Fan Motor
M
1
J-4
0.85 BLK
0.85 BLU
0.5 BLK
0.85 BLK
3 BLK
3 BLK
1
H-109
1 BLU
1
E-82
Clutch
A/C Compressor
0.5 BRN/YEL
PIM
2
E-82
1 BLK
1 BLK
3 BLK
3BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
E-97
J-9
J-11

4554448


HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Airconditioner 10A
2 B-15
0.5 BLK/ RED
A
0.5BLK/RED
H-80
22
0.5 BLK/ RED
13 B-258
2 B-259
Sub J/B
10 B-260
4 B-259
16 B-264 J/C-30P
22
20
Cigar Fuse
Magnetic Clutch Relay
1.25 RED/ YEL
2 BLK
0.5 GRY
0.5 BLK
0.5 BLK/ RED
0.5 BLK/ RED
0.5 BLK
9 H-80
0.5 GRY
Weld Splice11
1.25 RED/ YEL
3 5 B-189
2 B-245
Electronic Thermostat
Defroster Switch
6 H-85
(C-Cab)
1.25 RED/ YEL
4 B-189
1 B-245
B-48 Earth Joint 10P1
B-49 Earth Joint 10P2
6
3 BLK
4
10
10
5
0.5 BRN/ RED
0.5 BRN/ WHT
1 N-31
Rear Heater
M
Lo
Hi
Off
4 3 6 B-158
A/C Switch
Off
3 BLK
3 BLK
Refer to Ground Distribution
5 B-158
B-53
B-52

4554460

Section 3

Cab and Chassis Electrical

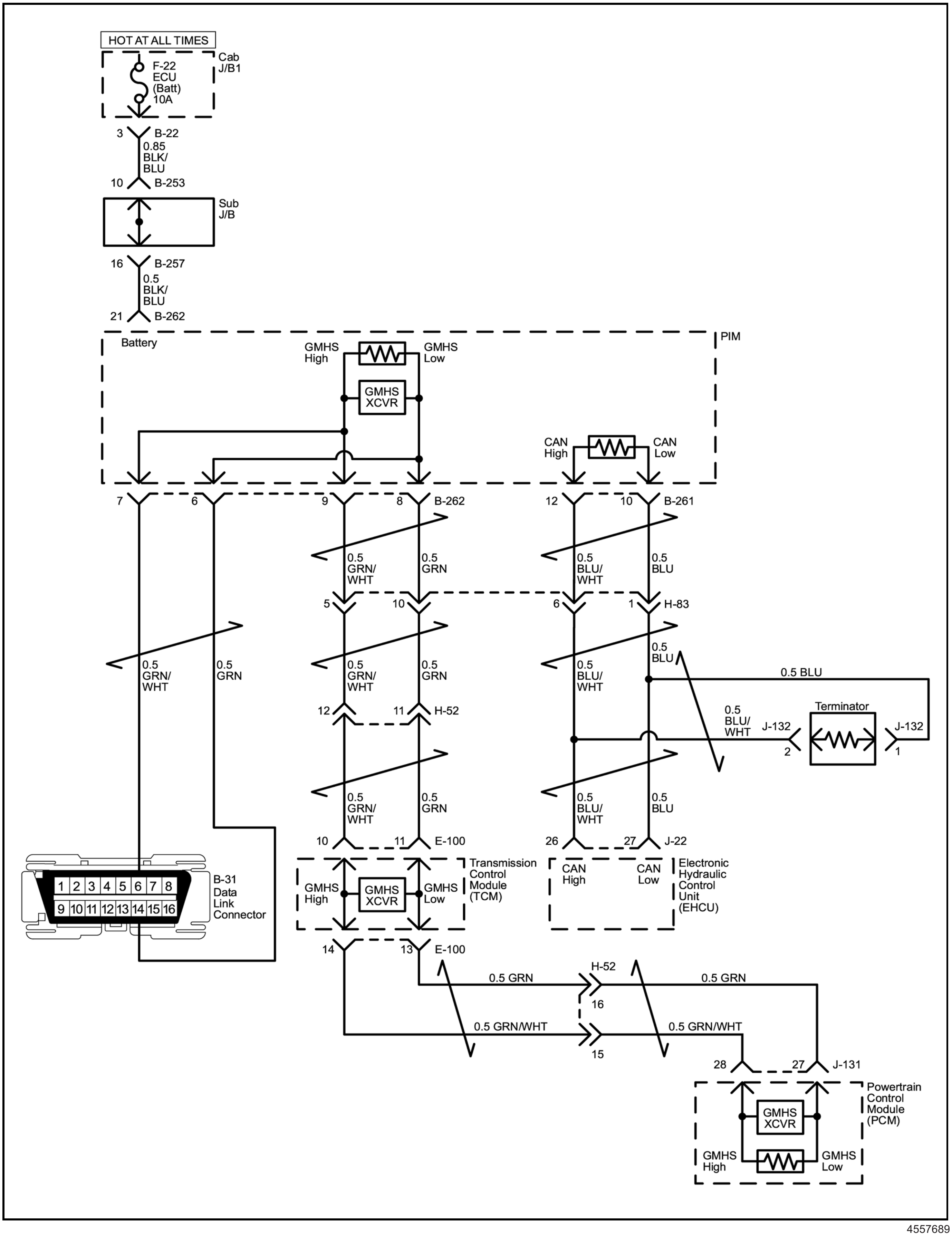
Cab and Chassis Electrical 3-3
  Schematic and Routing Diagrams 3-3
    Controller Area Network (CAN) Schematics 3-4
    Data Link Connector Schematics 3-5
    Engine Controls Schematics 3-7
    Ground Distribution Schematics 3-12
    Heated Mirror Schematics 3-17
    Power Distribution Schematics (Chassis) 3-18
    Power Distribution Schematics (Cab) 3-22
    Sub Junction Block Schematics 3-31
    Harness Routing Views 3-39
  Visual Identification 3-56
    Connector List 3-56
  Component Locator 3-197
    Ground Views 3-197
  Visual Identification 3-200
    Inline Harness Connector End Views 3-200
  Component Locator 3-221
    Diode Location 3-221
    Fuse, Fusible Link, and Slow-Blow Fuse Location 3-222
    Joint Connection and Weld Splice Location . . . 3-223
    Parts Location 3-230
    Relay Location 3-234
  Description and Operation 3-235
    Exterior Lights Circuit Description 3-235
  Schematic and Routing Diagrams 3-235
    Exterior Lights Schematics 3-236
  Description and Operation 3-246
    Wiper/Washer System Circuit Description 3-246
  Schematic and Routing Diagrams 3-247
    Wiper/Washer Schematics 3-248
  Description and Operation 3-250
    Horns Circuit Description 3-250
  Schematic and Routing Diagrams 3-250
    Horn Schematics 3-251
  Description and Operation 3-252
    Radio and Cigarette Lighter Circuit Description 3-252
  Schematic and Routing Diagrams 3-252
    Radio and Cigarette Lighter Schematics 3-253
  Description and Operation 3-255
    Instrument Cluster Circuit Description 3-255
  Schematic and Routing Diagrams 3-255
    Instrument Cluster Schematics 3-256
  Description and Operation 3-264
    HVAC Circuit Description 3-264
  Schematic and Routing Diagrams 3-264
    HVAC Schematics 3-265
  Description and Operation 3-268
    Service Terminal Circuit Description 3-268
  Schematic and Routing Diagrams 3-269
    Service Terminal Schematics 3-270
  Description and Operation 3-272
    Power Windows 3-272
  Schematic and Routing Diagrams 3-273
    Power Window Schematics 3-274
  Description and Operation 3-276
    Power Door Locks Circuit Description 3-276
  Schematic and Routing Diagrams 3-276
    Power Door Lock Schematics 3-277
  Description and Operation 3-278
    Backup Alarm System Circuit Description 3-278
  Schematic and Routing Diagrams 3-278
    Backup Alarm System Schematics 3-279
  Description and Operation 3-280
    Heated Mirror Circuit Description 3-280
    Controller Area Network (CAN) Circuit Description 3-280
    Data Link Connector Circuit Description 3-280

BLANK

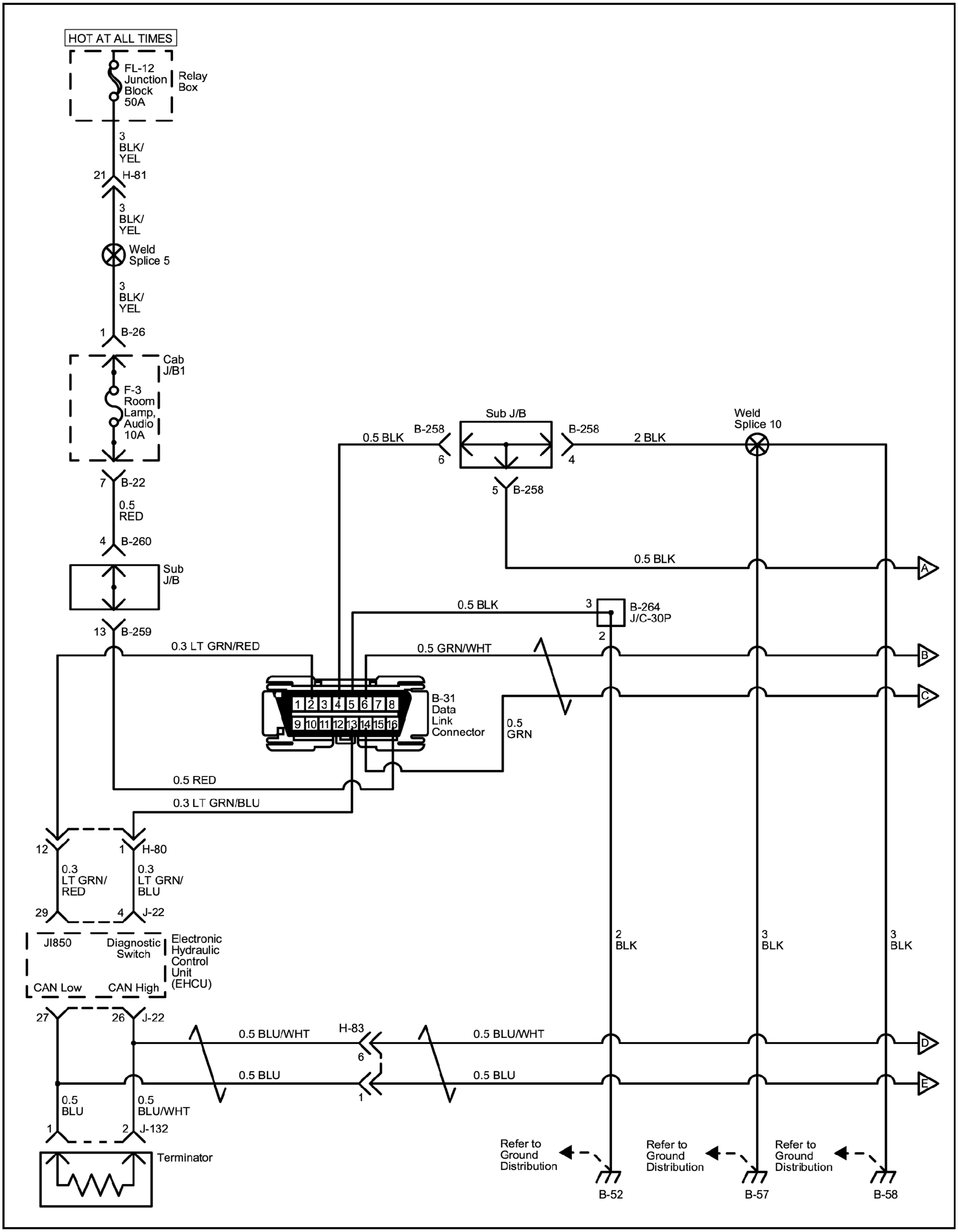
Cab and Chassis Electrical

Schematic and Routing Diagrams

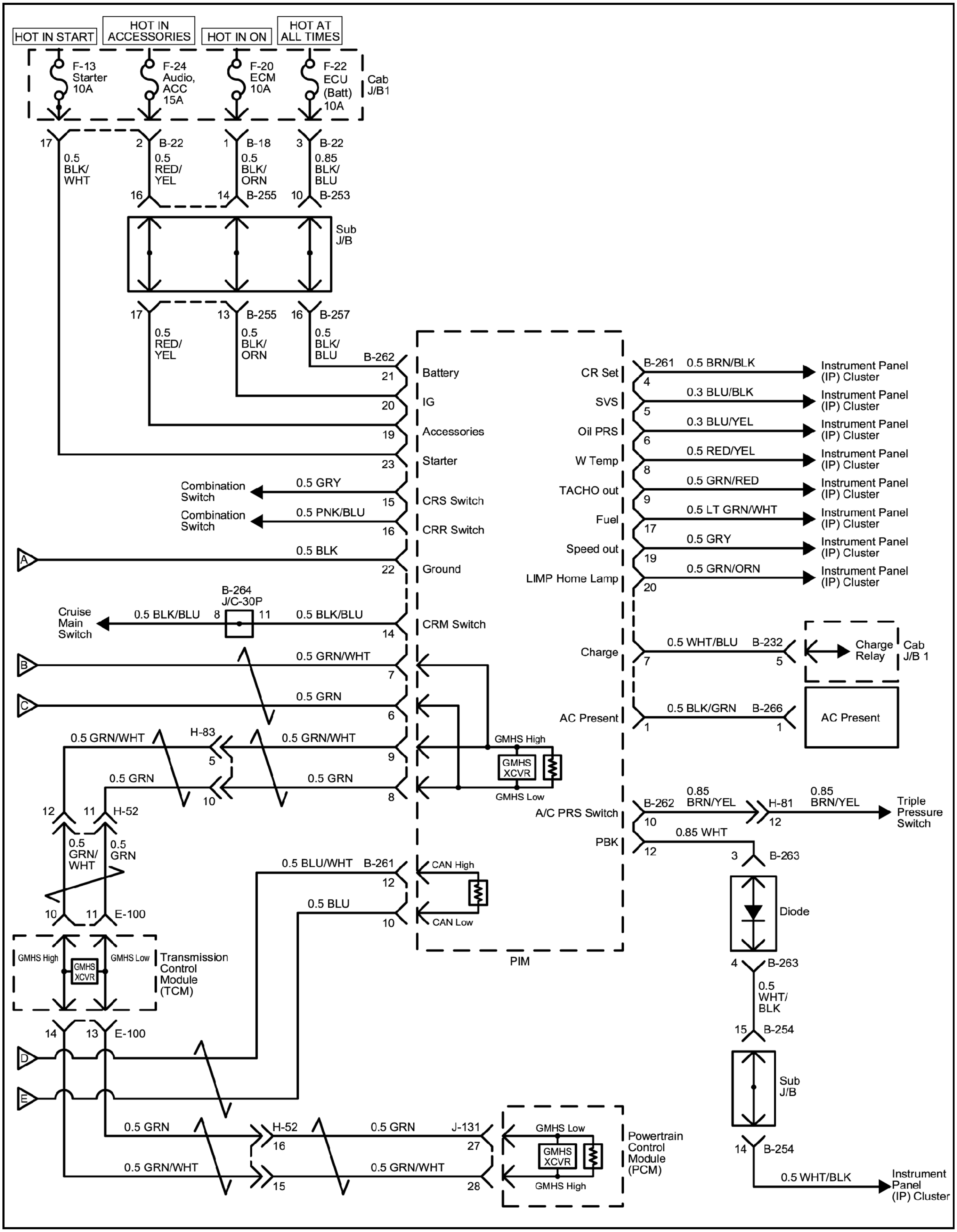
Controller Area Network (CAN) Schematics


HOT AT ALL TIMES
F-22
ECU
(Batt)
10A
Cab
J/B1
3 B-22
0.85
BLK/
BLU
10 B-253
Sub
J/B
16 B-257
0.5
BLK/
BLU
21 B-262
Battery
GMHS High
GMHS Low
GMHS XCVR
PIM
CAN High
CAN Low
7 6 9 8 B-262
12 10 B-261
0.5 GRN/WHT
0.5 GRN
0.5 BLU/WHT
0.5 BLU
5 10 6 1 H-83
12 11 H-52
0.5 BLU
Terminator
J-132 2
J-132 1
10 11 E-100
26 27 J-22
B-31
Data
Link
Connector
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
Transmission Control Module (TCM)
Electronic Hydraulic Control Unit (EHCU)
14 13 E-100
0.5 GRN
H-52
16
0.5 GRN/WHT
15
28 27 J-131
Powertrain Control Module (PCM)
4557689

Data Link Connector Schematics

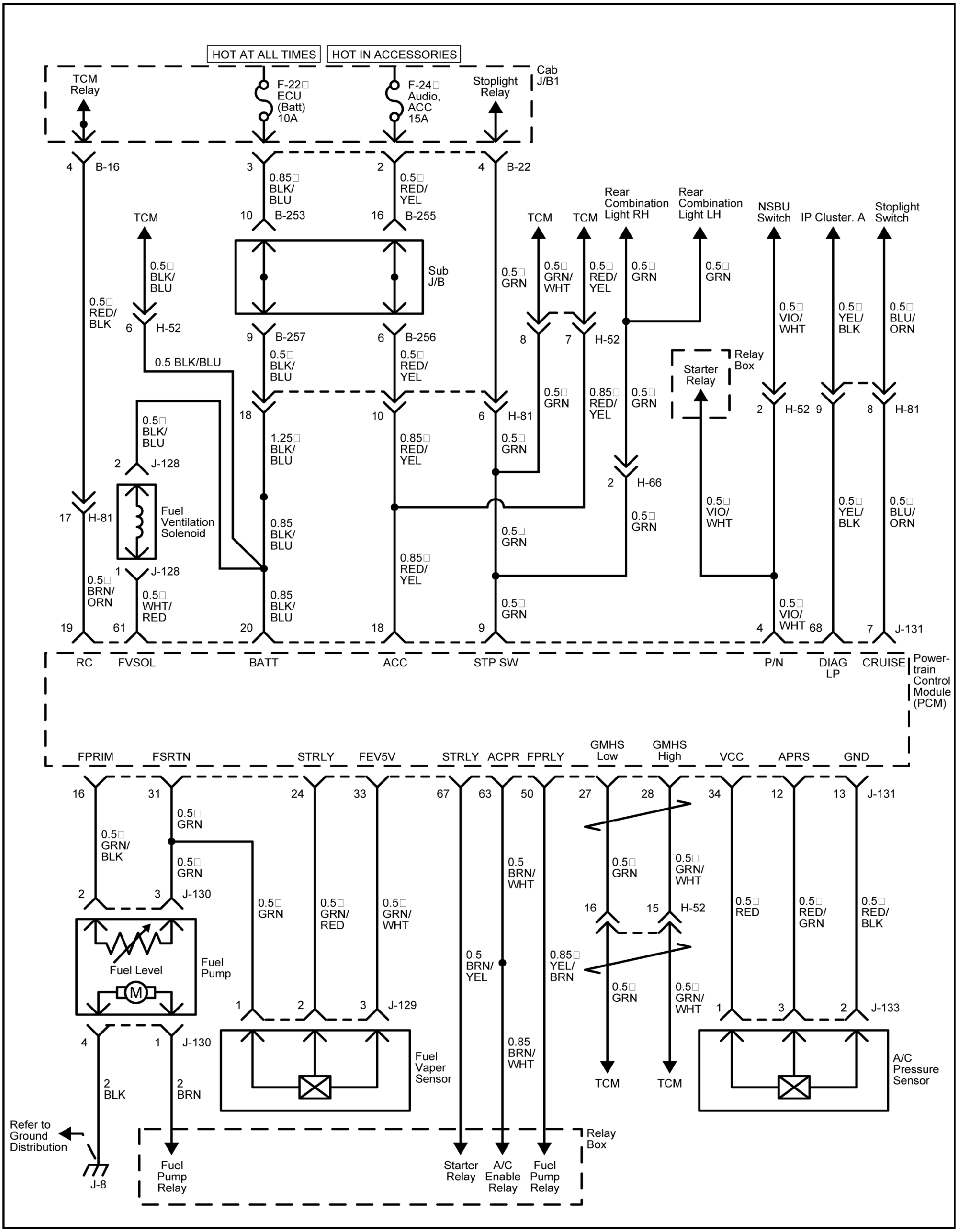

HOT AT ALL TIMES
FL-12 Junction Block 50A
Relay Box
3 BLK/ YEL
21 H-81
3 BLK/ YEL
Weld Splice 5
3 BLK/ YEL
1 B-26
Cab J/B1
F-3 Room Lamp, Audio 10A
7 B-22
0.5 RED
4 B-260
Sub J/B
13 B-259
0.3 LT GRN/RED
Sub J/B
0.5 BLK
B-258
6
B-258
4
2 BLK
Weld Splice 10
5 B-258
0.5 BLK
A
0.5 BLK
3
B-264 J/C-30P
2
0.5 GRN/WHT
B
C
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
B-31 Data Link Connector
0.5 GRN
0.5 RED
0.3 LT GRN/BLU
12
1 H-80
0.3 LT GRN/ RED
0.3 LT GRN/ BLU
29
4 J-22
JI850
Diagnostic Switch
CAN Low
CAN High
Electronic Hydraulic Control Unit (EHCU)
2 BLK
3 BLK
3 BLK
27
26 J-22
0.5 BLU/WHT
H-83
6
0.5 BLU/WHT
D
0.5 BLU
1
0.5 BLU
E
0.5 BLU
0.5 BLU/WHT
1
2 J-132
Terminator
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-52
B-57
B-58

4557690

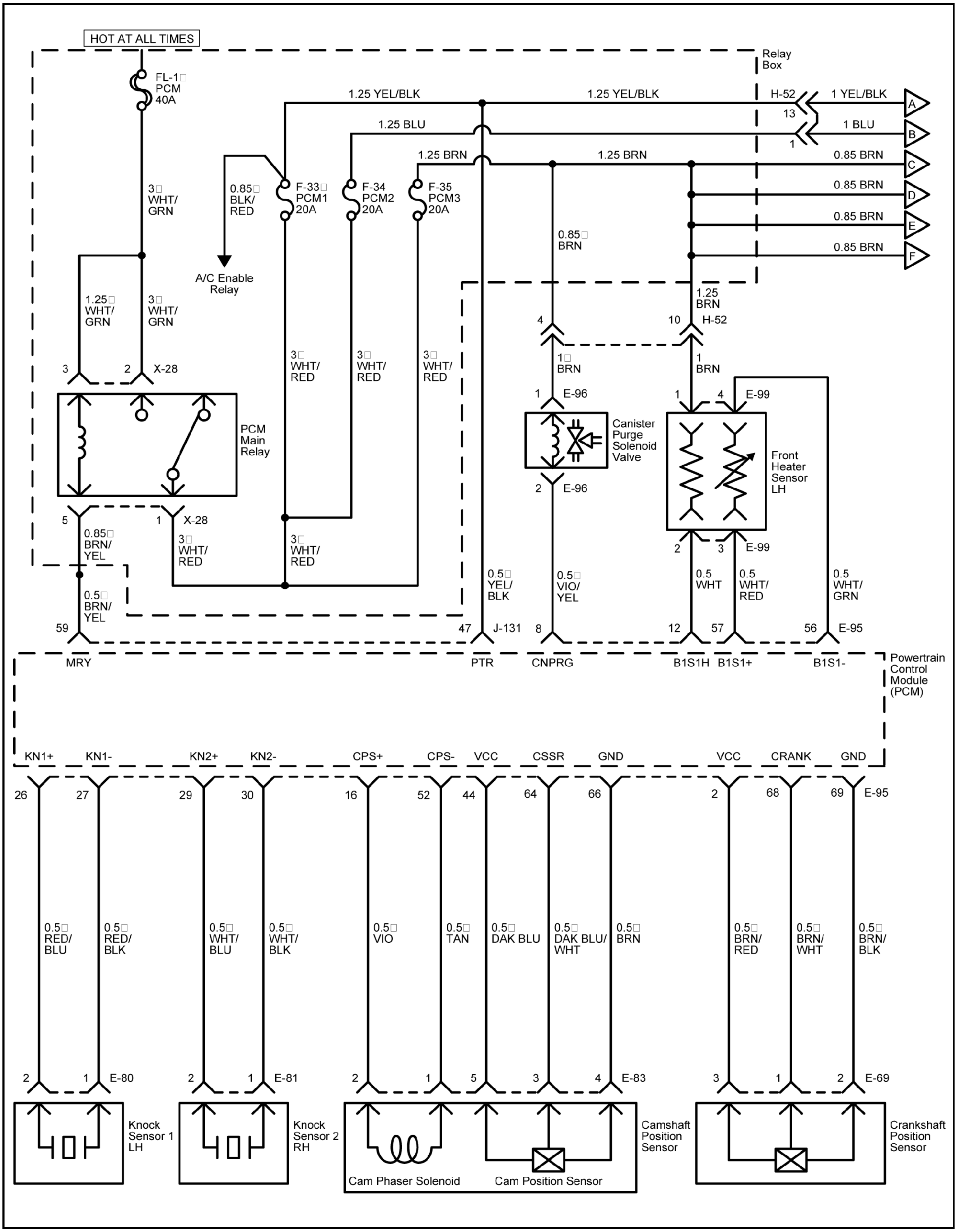

HOT IN START
HOT IN ACCESSORIES
HOT IN ON
HOT AT ALL TIMES
F-13 Starter 10A
F-24 Audio, ACC 15A
F-20 ECM 10A
F-22 ECU (Batt) 10A
Cab J/B1
17
0.5 BLK/WHT
2 B-22
0.5 RED/YEL
1 B-18
0.5 BLK/ORN
3 B-22
0.85 BLK/BLU
16
14 B-255
10 B-253
Sub J/B
17
13 B-255
16 B-257
0.5 RED/YEL
0.5 BLK/ORN
0.5 BLK/BLU
B-262
21 Battery
20 IG
19 Accessories
23 Starter
Combination Switch
0.5 GRY
15 CRS Switch
Combination Switch
0.5 PNK/BLU
16 CRR Switch
A
0.5 BLK
22 Ground
B-264 J/C-30P
Cruise Main Switch
0.5 BLK/BLU
8
11
0.5 BLK/BLU
14 CRM Switch
B
0.5 GRN/WHT
7
C
0.5 GRN
6
0.5 GRN/WHT
H-83
5
0.5 GRN/WHT
9
0.5 GRN
10
0.5 GRN
8
GMHS High
GMHS XCVR
GMHS Low
12
11 H-52
0.5 GRN/WHT
0.5 GRN
0.5 BLU/WHT B-261
12
CAN High
0.5 BLU
10
CAN Low
10
11 E-100
GMHS High
GMHS XCVR
GMHS Low
Transmission Control Module (TCM)
PIM
14
13 E-100
D
E
0.5 GRN
H-52
16
0.5 GRN
J-131
27
0.5 GRN/WHT
15
0.5 GRN/WHT
28
GMHS Low
GMHS XCVR
GMHS High
Powertrain Control Module (PCM)
CR Set
B-261
4
0.5 BRN/BLK
Instrument Panel (IP) Cluster
SVS
5
0.3 BLU/BLK
Instrument Panel (IP) Cluster
Oil PRS
6
0.3 BLU/YEL
Instrument Panel (IP) Cluster
W Temp
8
0.5 RED/YEL
Instrument Panel (IP) Cluster
TACHO out
9
0.5 GRN/RED
Instrument Panel (IP) Cluster
Fuel
17
0.5 LT GRN/WHT
Instrument Panel (IP) Cluster
Speed out
19
0.5 GRY
Instrument Panel (IP) Cluster
LIMP Home Lamp
20
0.5 GRN/ORN
Instrument Panel (IP) Cluster
Charge
7
0.5 WHT/BLU
B-232
5
Charge Relay
Cab J/B 1
AC Present
1
0.5 BLK/GRN
B-266
1
AC Present
A/C PRS Switch
B-262
10
0.85 BRN/YEL
H-81
12
0.85 BRN/YEL
Triple Pressure Switch
PBK
12
0.85 WHT
3 B-263
Diode
4 B-263
0.5 WHT/BLK
15 B-254
Sub J/B
14 B-254
0.5 WHT/BLK
Instrument Panel (IP) Cluster

4557691

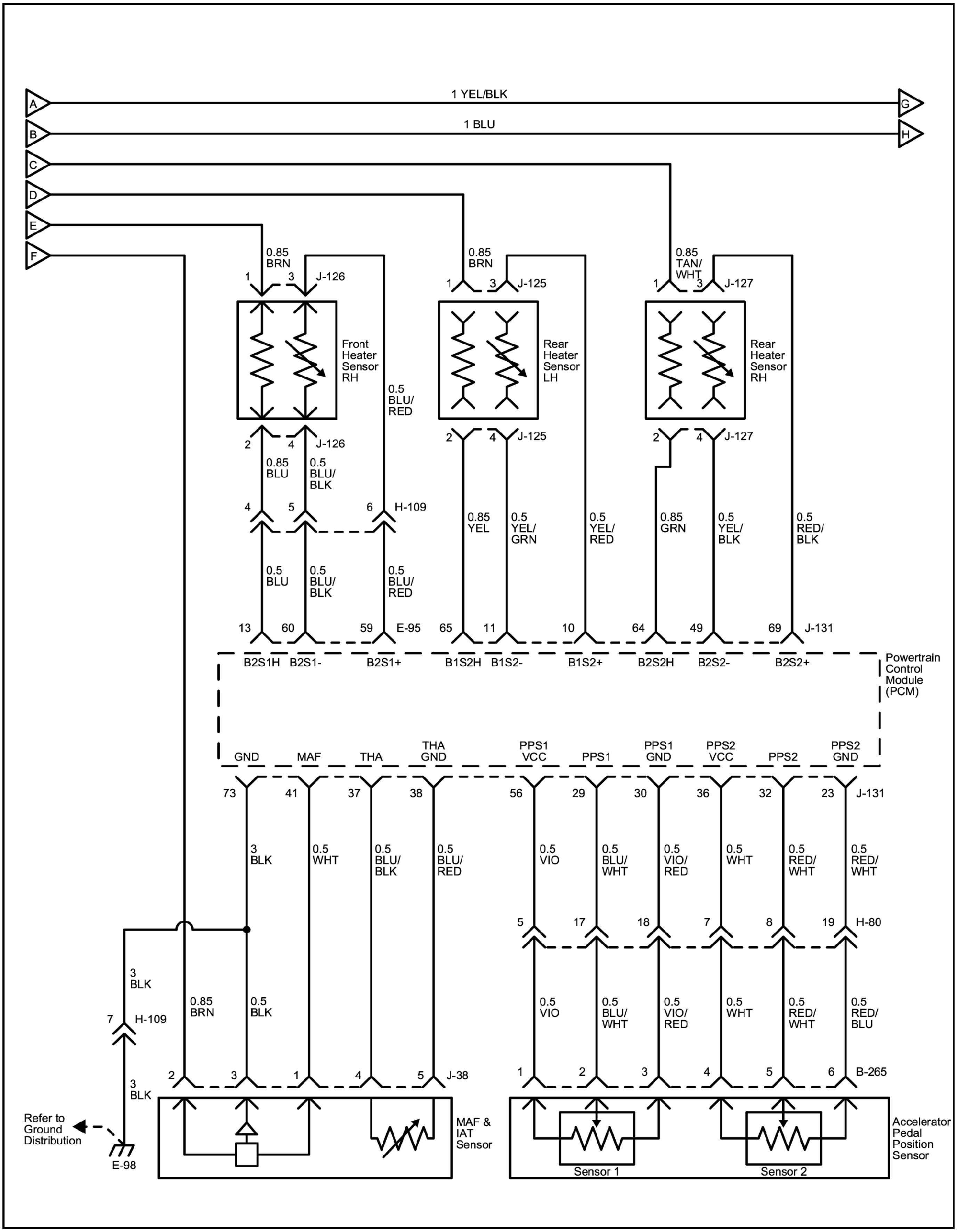
Engine Controls Schematics


HOT AT ALL TIMES
HOT IN ACCESSORIES
TCM Relay
F-22□ ECU (Batt) 10A
F-24□ Audio, ACC 15A
Stoplight Relay
Cab J/B1
4 B-16
3
0.85□ BLK/ BLU
2
0.5□ RED/ YEL
4 B-22
10 B-253
16 B-255
TCM
0.5□ BLK/ BLU
Sub J/B
0.5□ RED/ BLK
6 H-52
9 B-257
6 B-256
0.5 BLK/BLU
0.5□ BLK/ BLU
0.5□ RED/ YEL
18
10
6 H-81
1.25□ BLK/ BLU
0.85□ RED/ YEL
0.5□ GRN
0.5□ BLK/ BLU
2 J-128
Fuel Ventilation Solenoid
17 H-81
1 J-128
0.85 BLK/ BLU
0.85□ RED/ YEL
0.5□ BRN/ ORN
0.5□ WHT/ RED
0.85 BLK/ BLU
0.5□ GRN
0.5□ GRN
TCM
TCM
Rear Combination Light RH
Rear Combination Light LH
NSBU Switch
IP Cluster. A
Stoplight Switch
0.5□ GRN
0.5□ GRN/ WHT
0.5□ RED/ YEL
0.5□ GRN
0.5□ GRN
8
7 H-52
Relay Box
Starter Relay
0.5□ VIO/ WHT
0.5□ YEL/ BLK
0.5□ BLU/ ORN
0.5□ GRN
0.85□ RED/ YEL
0.5□ GRN
2 H-52 9
8 H-81
2 H-66
0.5□ GRN
0.5□ VIO/ WHT
0.5□ YEL/ BLK
0.5□ BLU/ ORN
0.5□ VIO/ WHT
19
61
20
18
9
4
68
7 J-131
RC
FVSOL
BATT
ACC
STP SW
P/N
DIAG LP
CRUISE
Power-train Control Module (PCM)
FPRIM
FSRTN
STRLY
FEV5V
STRLY
ACPR
FPRLY
GMHS Low
GMHS High
VCC
APRS
GND
16
31
24
33
67
63
50
27
28
34
12
13 J-131
0.5□ GRN
0.5□ GRN/ BLK
0.5□ GRN
2
3 J-130
0.5□ GRN
0.5□ GRN/ RED
0.5□ GRN/ WHT
0.5 BRN/ WHT
0.5□ GRN
0.5□ GRN/ WHT
0.5□ RED
0.5□ RED/ GRN
0.5□ RED/ BLK
16
15 H-52
Fuel Level
Fuel Pump
M
0.5 BRN/ YEL
0.85□ YEL/ BRN
0.5□ GRN
0.5□ GRN/ WHT
1
2
3 J-129
1
3
2 J-133
4
1 J-130
Fuel Vaper Sensor
0.85 BRN/ WHT
A/C Pressure Sensor
2 BLK
2 BRN
TCM
TCM
Refer to Ground Distribution
Relay Box
J-8
Fuel Pump Relay
Starter Relay
A/C Enable Relay
Fuel Pump Relay

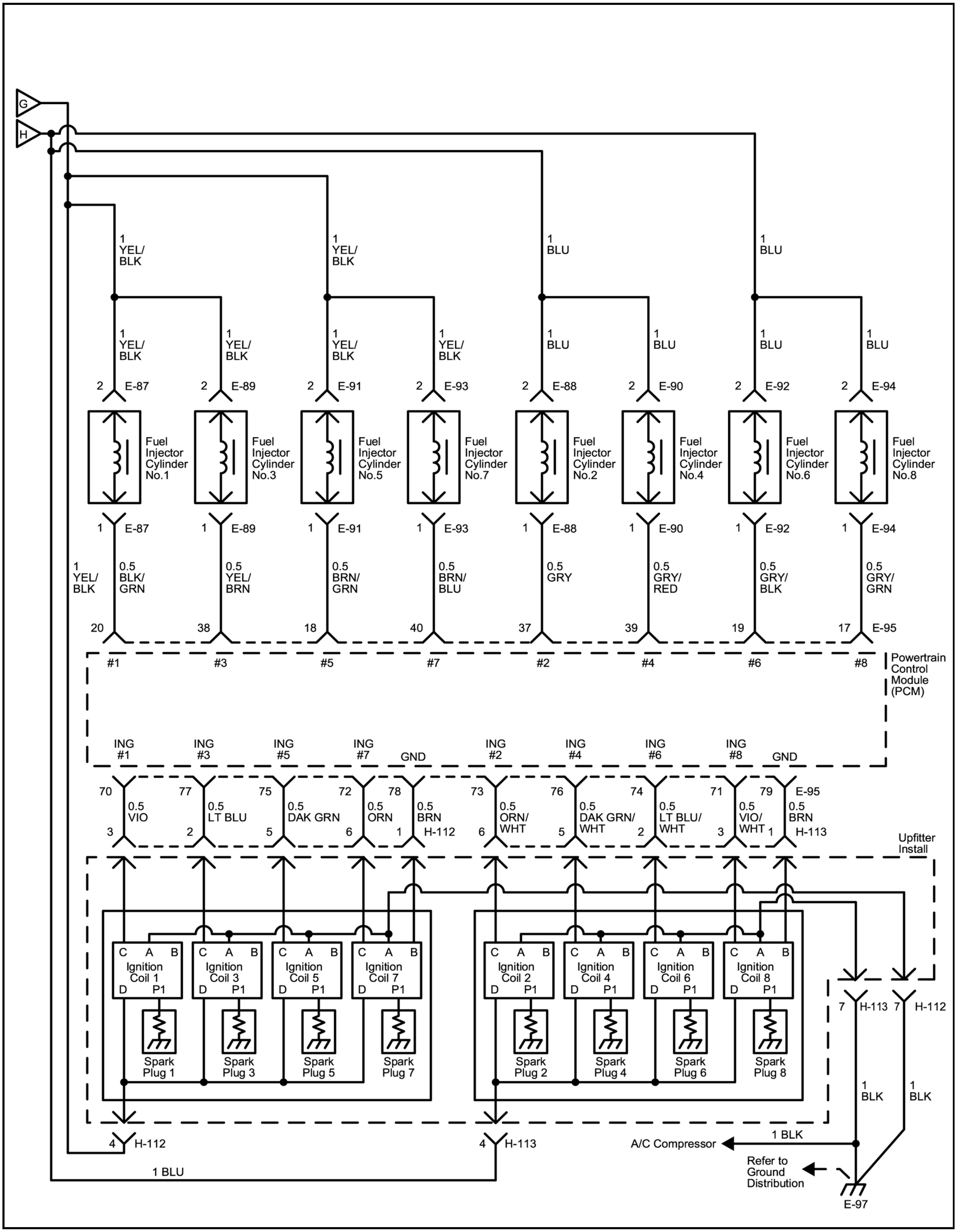
4556526


HOT AT ALL TIMES
Relay Box
FL-1□ PCM 40A
3□ WHT/ GRN
1.25 YEL/BLK
1.25 YEL/BLK
H-52
13
1 YEL/BLK
A
1.25 BLU
1
1 BLU
B
1.25 BRN
1.25 BRN
0.85 BRN
C
0.85 BRN
D
0.85 BRN
E
0.85 BRN
F
0.85□ BLK/ RED
A/C Enable Relay
F-33□ PCM1 20A
F-34 PCM2 20A
F-35 PCM3 20A
0.85□ BRN
1.25□ WHT/ GRN
3□ WHT/ GRN
1.25 BRN
4
10
H-52
3
2
X-28
3□ WHT/ RED
3□ WHT/ RED
3□ WHT/ RED
1□ BRN
1 BRN
1
E-96
1
4
E-99
PCM Main Relay
Canister Purge Solenoid Valve
Front Heater Sensor LH
2
E-96
5
1
X-28
0.85□ BRN/ YEL
3□ WHT/ RED
3□ WHT/ RED
2
3
E-99
0.5□ BRN/ YEL
0.5□ YEL/ BLK
0.5□ VIO/ YEL
0.5 WHT
0.5 WHT/ RED
0.5 WHT/ GRN
59
47
J-131
8
12
57
56
E-95
MRY
PTR
CNPRG
B1S1H
B1S1+
B1S1-
Powertrain Control Module (PCM)
KN1+
KN1-
KN2+
KN2-
CPS+
CPS-
VCC
CSSR
GND
VCC
CRANK
GND
26
27
29
30
16
52
44
64
66
2
68
69
E-95
0.5□ RED/ BLU
0.5□ RED/ BLK
0.5□ WHT/ BLU
0.5□ WHT/ BLK
0.5□ VIO
0.5□ TAN
0.5□ DAK BLU
0.5□ DAK BLU/ WHT
0.5□ BRN
0.5□ BRN/ RED
0.5□ BRN/ WHT
0.5□ BRN/ BLK
2
1
E-80
2
1
E-81
2
1
5
3
4
E-83
3
1
2
E-69
Knock Sensor 1 LH
Knock Sensor 2 RH
Cam Phaser Solenoid
Cam Position Sensor
Camshaft Position Sensor
Crankshaft Position Sensor

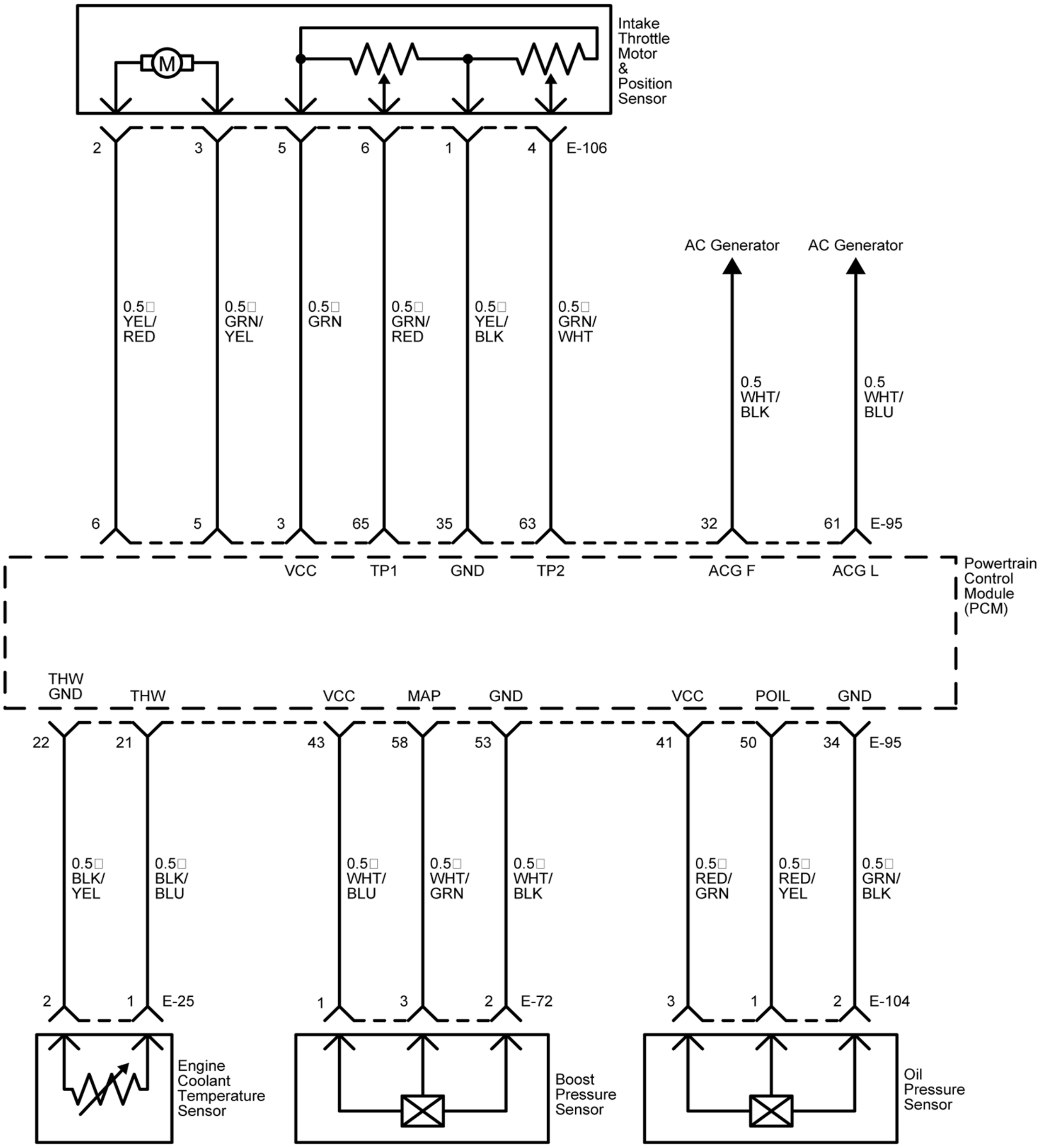
4556540


A
B
C
D
E
F
G
H
1 YEL/BLK
1 BLU
0.85 BRN
0.85 BRN
0.85 TAN/ WHT
1
3
J-126
J-125
J-127
Front Heater Sensor RH
Rear Heater Sensor LH
Rear Heater Sensor RH
0.5 BLU/ RED
2
4
0.85 BLU
0.5 BLU/ BLK
4
5
6
H-109
0.85 YEL
0.5 YEL/ GRN
0.5 YEL/ RED
0.85 GRN
0.5 YEL/ BLK
0.5 RED/ BLK
0.5 BLU
0.5 BLU/ BLK
0.5 BLU/ RED
13
60
59
E-95
65
11
10
64
49
69
J-131
B2S1H
B2S1-
B2S1+
B1S2H
B1S2-
B1S2+
B2S2H
B2S2-
B2S2+
Powertrain Control Module (PCM)
GND
MAF
THA
THA GND
PPS1 VCC
PPS1
PPS1 GND
PPS2 VCC
PPS2
PPS2 GND
73
41
37
38
56
29
30
36
32
23
J-131
3 BLK
0.5 WHT
0.5 BLU/ BLK
0.5 BLU/ RED
0.5 VIO
0.5 BLU/ WHT
0.5 VIO/ RED
0.5 WHT
0.5 RED/ WHT
0.5 RED/ WHT
5
17
18
7
8
19
H-80
3 BLK
0.85 BRN
0.5 BLK
7
H-109
0.5 VIO
0.5 BLU/ WHT
0.5 VIO/ RED
0.5 WHT
0.5 RED/ WHT
0.5 RED/ BLU
3 BLK
2
3
1
4
5
J-38
1
2
3
4
5
6
B-265
Refer to Ground Distribution
E-98
MAF & IAT Sensor
Sensor 1
Sensor 2
Accelerator Pedal Position Sensor

4556555

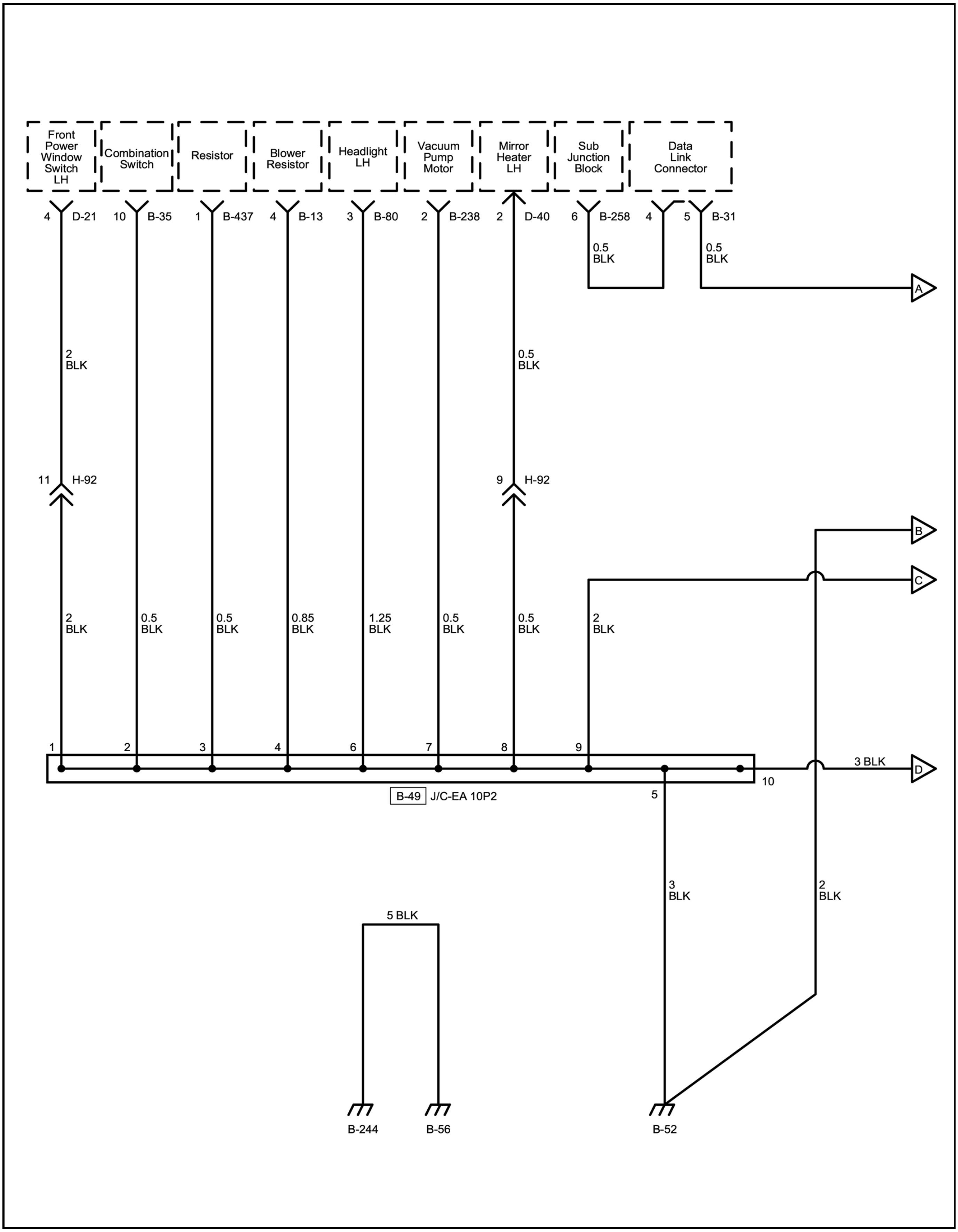

G
H
1 YEL/ BLK
1 YEL/ BLK
1 BLU
1 BLU
1 YEL/ BLK
1 YEL/ BLK
1 YEL/ BLK
1 YEL/ BLK
1 BLU
1 BLU
1 BLU
1 BLU
2 E-87
2 E-89
2 E-91
2 E-93
2 E-88
2 E-90
2 E-92
2 E-94
Fuel Injector Cylinder No.1
Fuel Injector Cylinder No.3
Fuel Injector Cylinder No.5
Fuel Injector Cylinder No.7
Fuel Injector Cylinder No.2
Fuel Injector Cylinder No.4
Fuel Injector Cylinder No.6
Fuel Injector Cylinder No.8
1 E-87
1 E-89
1 E-91
1 E-93
1 E-88
1 E-90
1 E-92
1 E-94
1 YEL/ BLK
0.5 BLK/ GRN
0.5 YEL/ BRN
0.5 BRN/ GRN
0.5 BRN/ BLU
0.5 GRY
0.5 GRY/ RED
0.5 GRY/ BLK
0.5 GRY/ GRN
20
38
18
40
37
39
19
17 E-95
#1
#3
#5
#7
#2
#4
#6
#8
Powertrain Control Module (PCM)
ING #1
ING #3
ING #5
ING #7
GND
ING #2
ING #4
ING #6
ING #8
GND
70
77
75
72
78
73
76
74
71
79 E-95
0.5 VIO
0.5 LT BLU
0.5 DAK GRN
0.5 ORN
0.5 BRN
0.5 ORN/ WHT
0.5 DAK GRN/ WHT
0.5 LT BLU/ WHT
0.5 VIO/ WHT
0.5 BRN
3
2
5
6
1 H-112
6
5
2
3
1 H-113
Upfitter Install
C A B Ignition Coil 1 D P1
C A B Ignition Coil 3 D P1
C A B Ignition Coil 5 D P1
C A B Ignition Coil 7 D P1
C A B Ignition Coil 2 D P1
C A B Ignition Coil 4 D P1
C A B Ignition Coil 6 D P1
C A B Ignition Coil 8 D P1
Spark Plug 1
Spark Plug 3
Spark Plug 5
Spark Plug 7
Spark Plug 2
Spark Plug 4
Spark Plug 6
Spark Plug 8
7 H-113
7 H-112
1 BLK
1 BLK
4 H-112
4 H-113
1 BLK
A/C Compressor
1 BLU
Refer to Ground Distribution
E-97

4556571

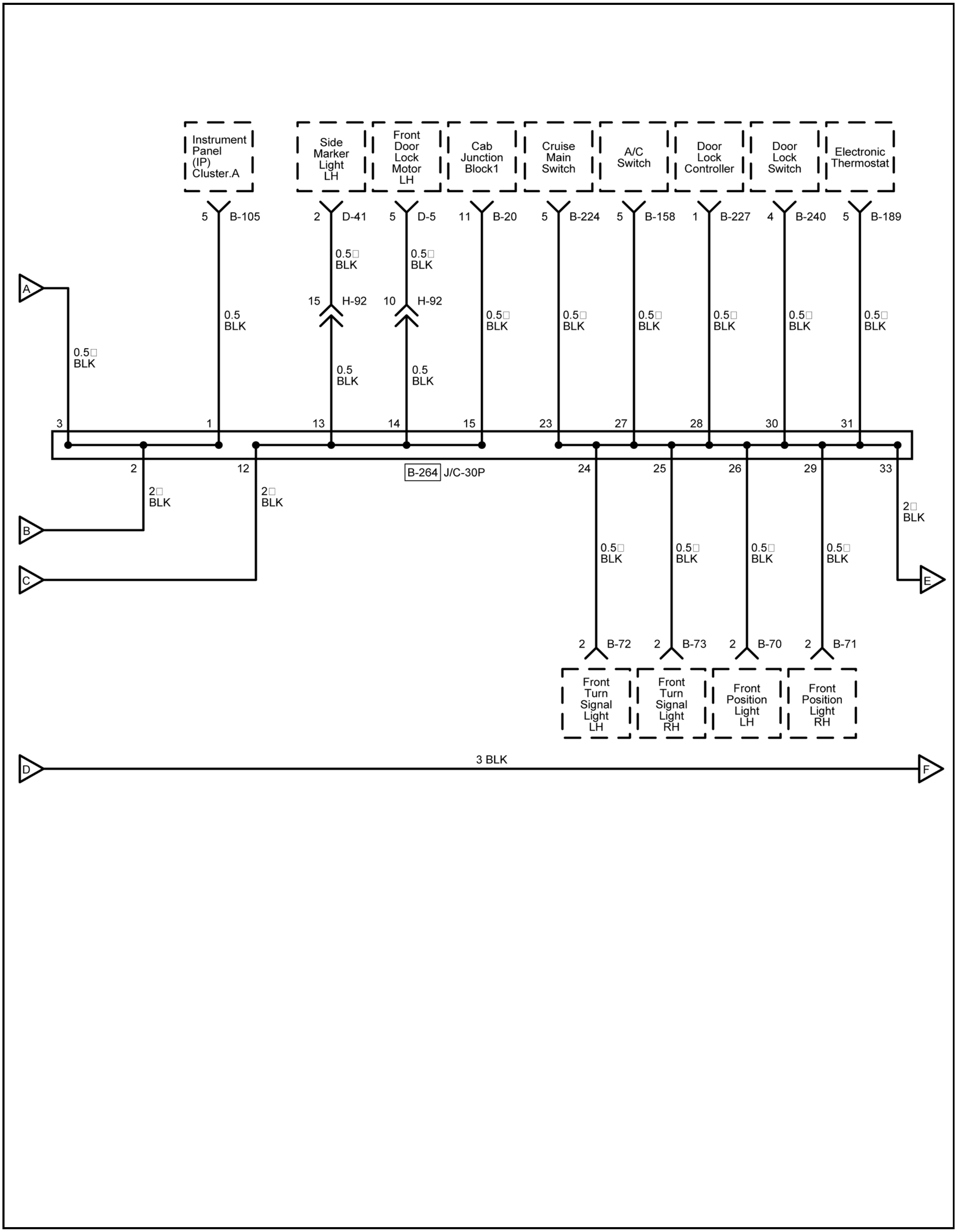

Intake Throttle Motor & Position Sensor
M
2
3
5
6
1
4
E-106
AC Generator
AC Generator
0.5□ YEL/ RED
0.5□ GRN/ YEL
0.5□ GRN
0.5□ GRN/ RED
0.5□ YEL/ BLK
0.5□ GRN/ WHT
0.5 WHT/ BLK
0.5 WHT/ BLU
6
5
3
65
35
63
32
61
E-95
VCC
TP1
GND
TP2
ACG F
ACG L
Powertrain Control Module (PCM)
THW GND
THW
VCC
MAP
GND
VCC
POIL
GND
22
21
43
58
53
41
50
34
E-95
0.5□ BLK/ YEL
0.5□ BLK/ BLU
0.5□ WHT/ BLU
0.5□ WHT/ GRN
0.5□ WHT/ BLK
0.5□ RED/ GRN
0.5□ RED/ YEL
0.5□ GRN/ BLK
2
1
E-25
1
3
2
E-72
3
1
2
E-104
Engine Coolant Temperature Sensor
Boost Pressure Sensor
Oil Pressure Sensor

4556598

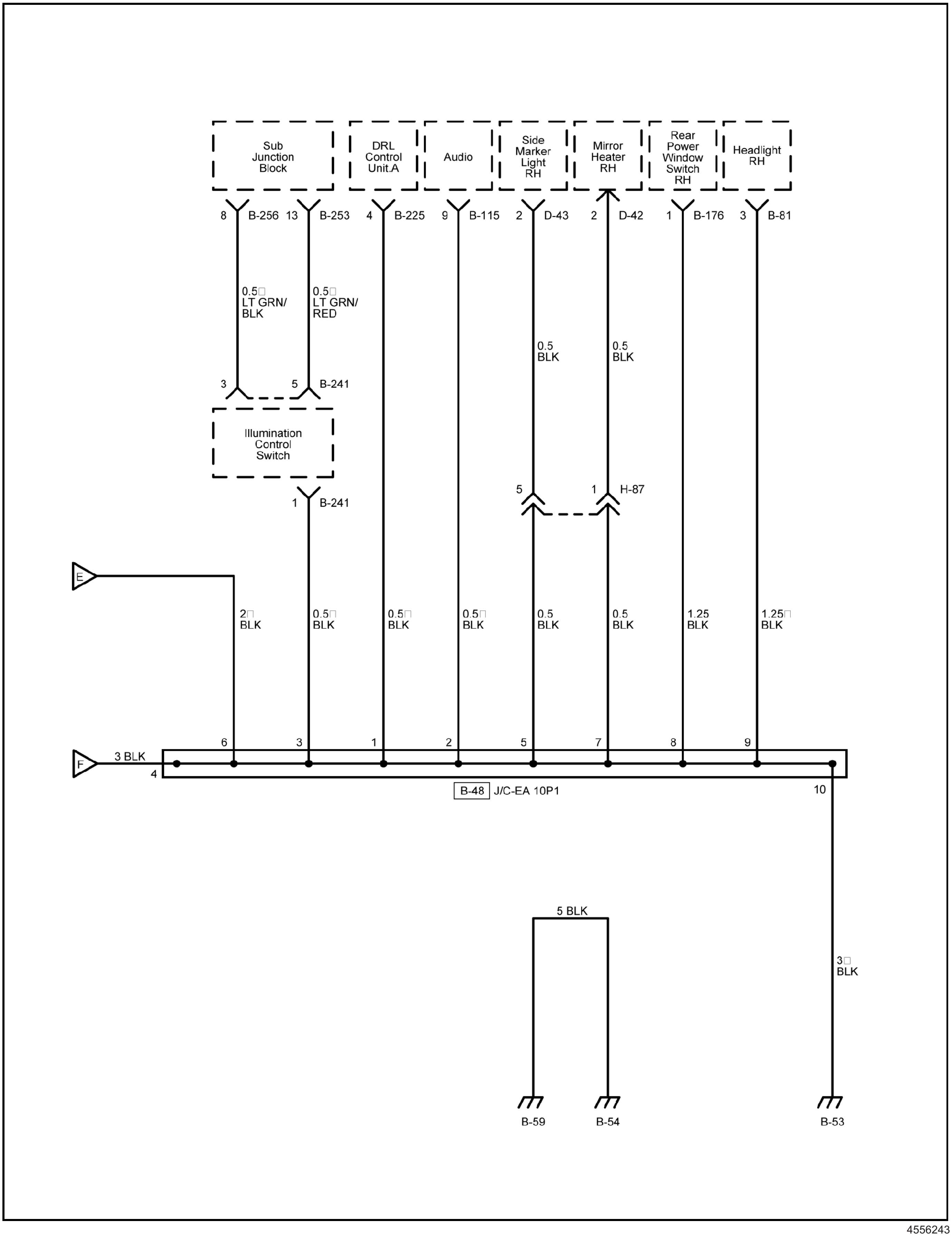
Ground Distribution Schematics


Front Power Window Switch LH
Combination Switch
Resistor
Blower Resistor
Headlight LH
Vacuum Pump Motor
Mirror Heater LH
Sub Junction Block
Data Link Connector
4 D-21
10 B-35
1 B-437
4 B-13
3 B-80
2 B-238
2 D-40
6 B-258
4
5 B-31
0.5 BLK
0.5 BLK
A
2 BLK
0.5 BLK
11 H-92
9 H-92
B
C
2 BLK
0.5 BLK
0.5 BLK
0.85 BLK
1.25 BLK
0.5 BLK
0.5 BLK
2 BLK
1
2
3
4
6
7
8
9
3 BLK
D
10
B-49 J/C-EA 10P2
5
3 BLK
2 BLK
5 BLK
B-244
B-56
B-52

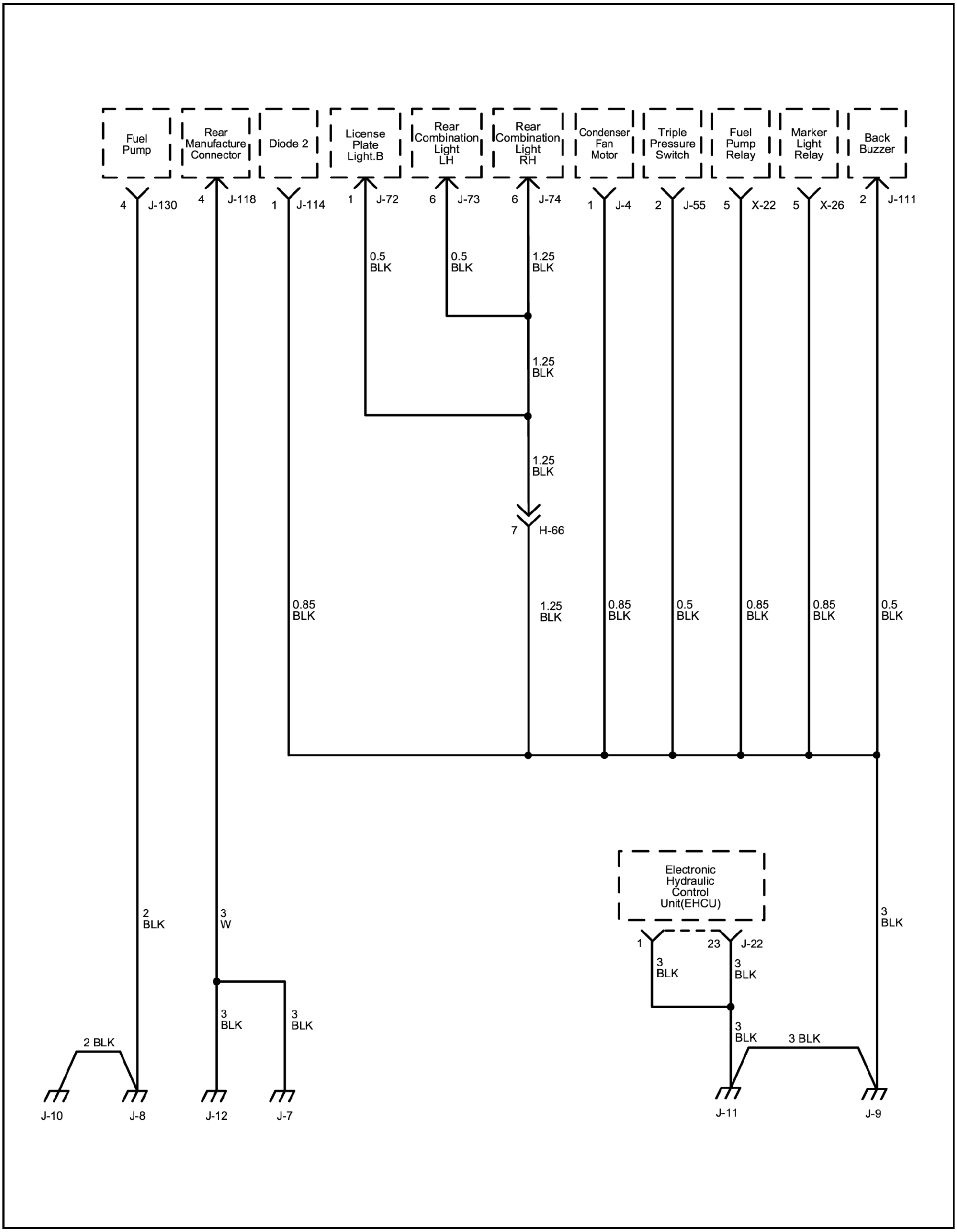
4556237


Instrument Panel (IP) Cluster.A
Side Marker Light LH
Front Door Lock Motor LH
Cab Junction Block1
Cruise Main Switch
A/C Switch
Door Lock Controller
Door Lock Switch
Electronic Thermostat
5 B-105
2 D-41
5 D-5
11 B-20
5 B-224
5 B-158
1 B-227
4 B-240
5 B-189
0.5□ BLK
15 H-92
10 H-92
0.5 BLK
A
B
C
D
E
F
3
1
13
14
15
23
27
28
30
31
2
12
24
25
26
29
33
B-264 J/C-30P
2□ BLK
2 B-72
2 B-73
2 B-70
2 B-71
Front Turn Signal Light LH
Front Turn Signal Light RH
Front Position Light LH
Front Position Light RH
3 BLK

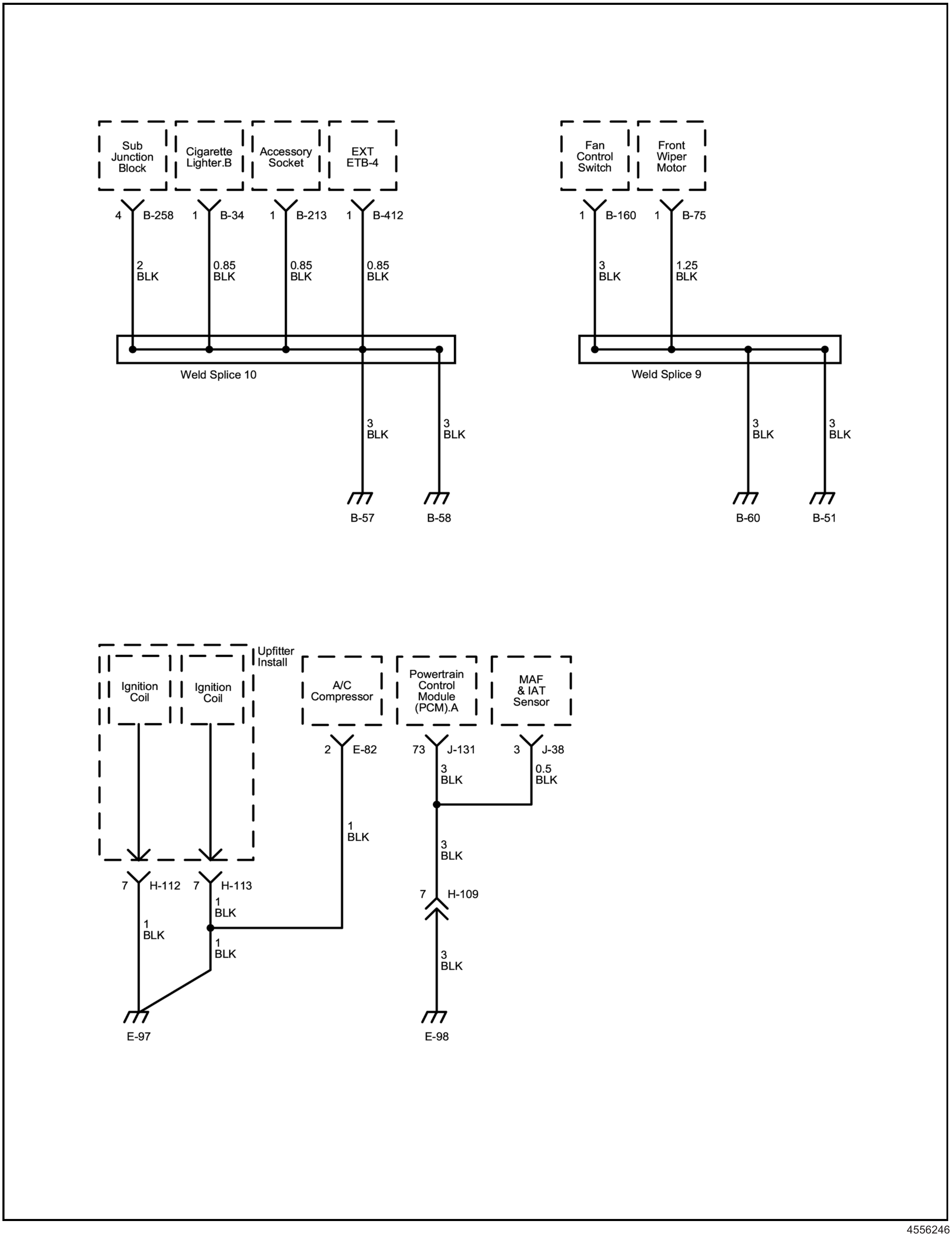
4556240


Sub Junction Block
DRL Control Unit.A
Audio
Side Marker Light RH
Mirror Heater RH
Rear Power Window Switch RH
Headlight RH
8 B-256
13 B-253
4 B-225
9 B-115
2 D-43
2 D-42
1 B-176
3 B-81
0.5 LT GRN/BLK
0.5 LT GRN/RED
0.5 BLK
0.5 BLK
3
5 B-241
Illumination Control Switch
1 B-241
5
1 H-87
E
2 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
1.25 BLK
1.25 BLK
6
3
1
2
5
7
8
9
F
3 BLK
4
B-48 J/C-EA 10P1
10
5 BLK
3 BLK
B-59
B-54
B-53

4556243

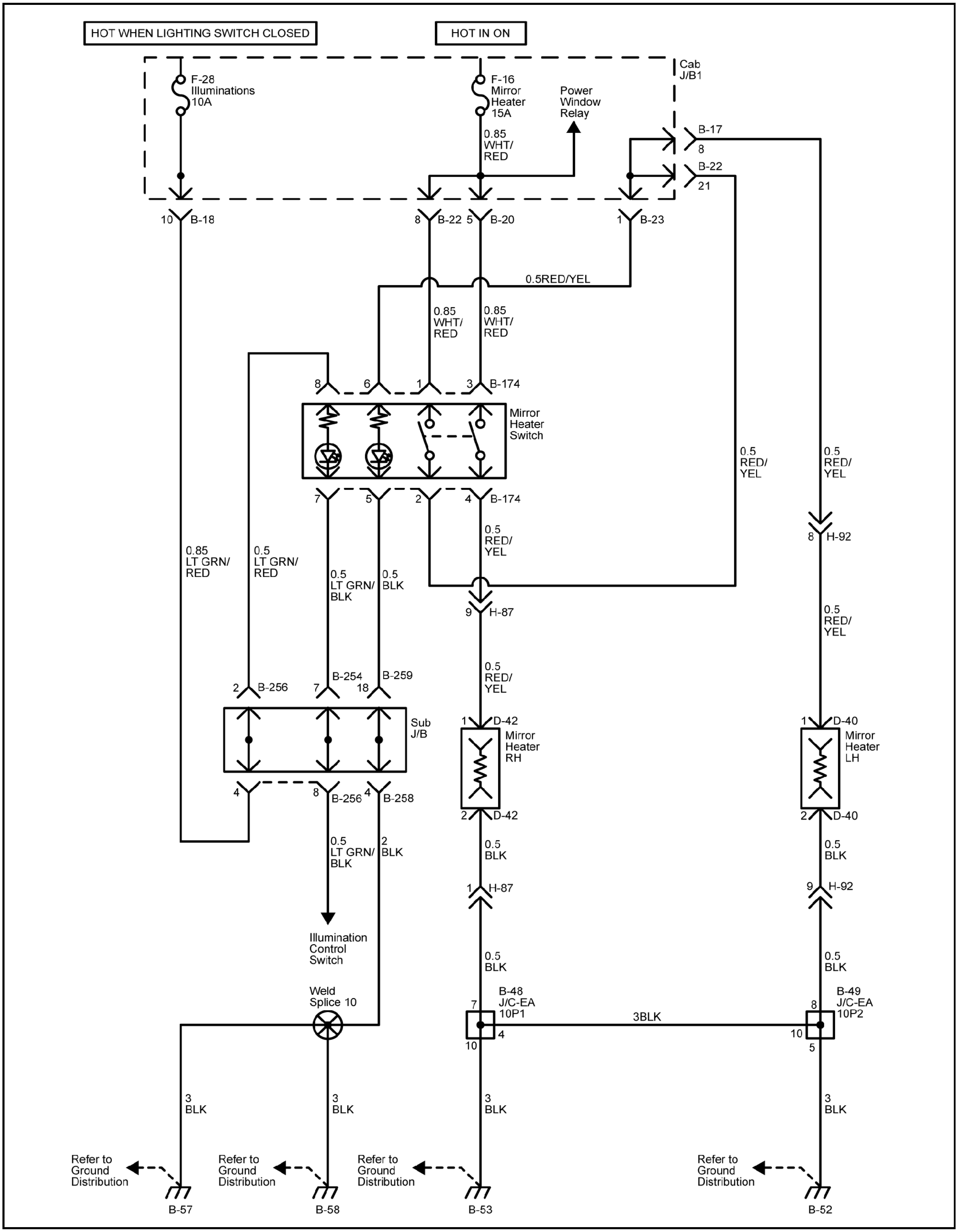

Fuel Pump
Rear Manufacture Connector
Diode 2
License Plate Light.B
Rear Combination Light LH
Rear Combination Light RH
Condenser Fan Motor
Triple Pressure Switch
Fuel Pump Relay
Marker Light Relay
Back Buzzer
4 J-130
4 J-118
1 J-114
1 J-72
6 J-73
6 J-74
1 J-4
2 J-55
5 X-22
5 X-26
2 J-111
0.5 BLK
0.5 BLK
1.25 BLK
1.25 BLK
1.25 BLK
7 H-66
0.85 BLK
1.25 BLK
0.85 BLK
0.5 BLK
0.85 BLK
0.85 BLK
0.5 BLK
Electronic Hydraulic Control Unit(EHCU)
2 BLK
3 W
3 BLK
1
23 J-22
3 BLK
3 BLK
3 BLK
3 BLK
3 BLK
3 BLK
2 BLK
3 BLK
J-10
J-8
J-12
J-7
J-11
J-9

4556244


Sub Junction Block
Cigarette Lighter.B
Accessory Socket
EXT ETB-4
4 B-258
1 B-34
1 B-213
1 B-412
2 BLK
0.85 BLK
0.85 BLK
0.85 BLK
Weld Splice 10
3 BLK
3 BLK
B-57
B-58
Fan Control Switch
Front Wiper Motor
1 B-160
1 B-75
3 BLK
1.25 BLK
Weld Splice 9
3 BLK
3 BLK
B-60
B-51
Upfitter Install
Ignition Coil
Ignition Coil
7 H-112
7 H-113
1 BLK
1 BLK
1 BLK
E-97
A/C Compressor
2 E-82
1 BLK
Powertrain Control Module (PCM).A
73 J-131
3 BLK
MAF & IAT Sensor
3 J-38
0.5 BLK
3 BLK
7 H-109
3 BLK
E-98

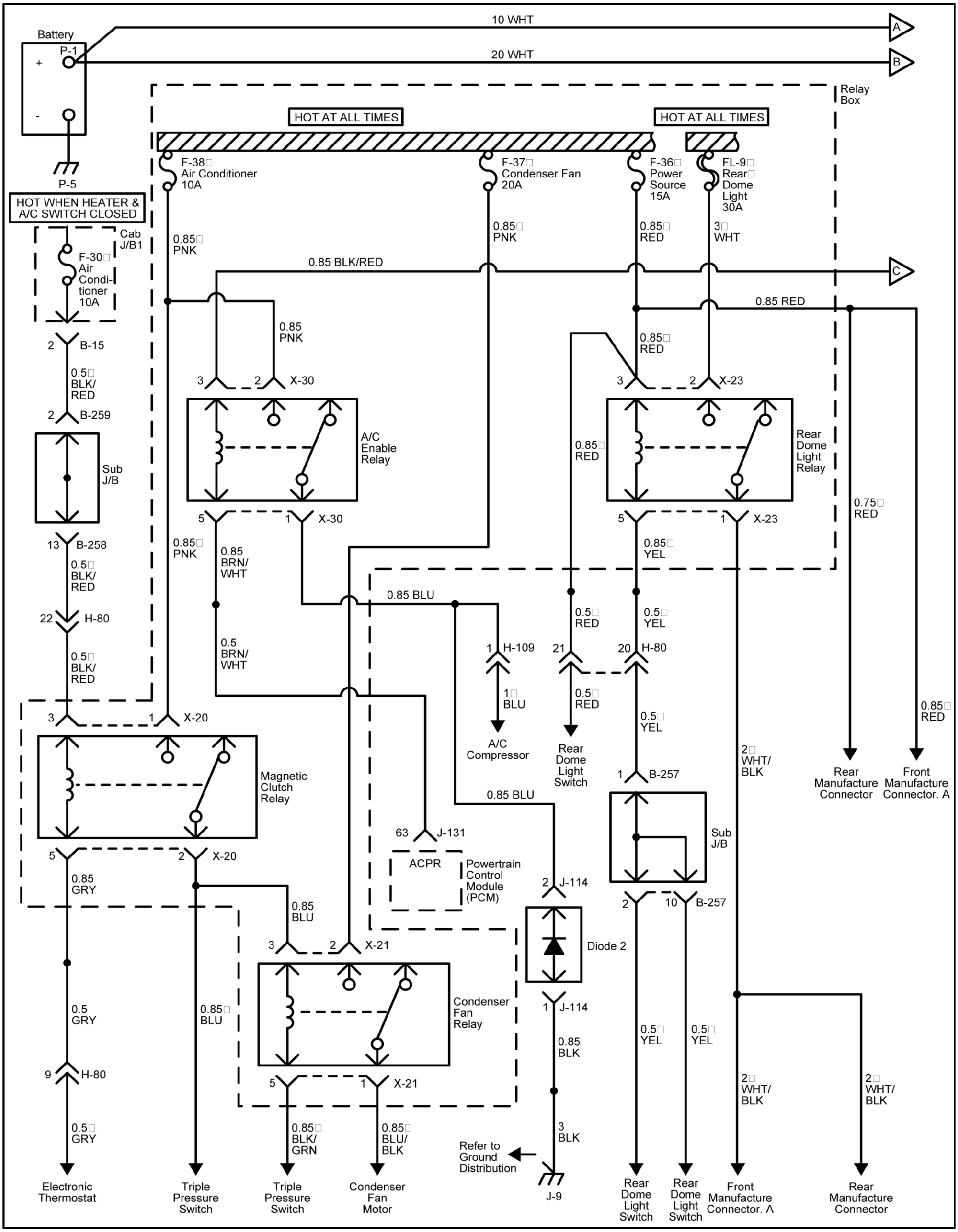
4556246

Heated Mirror Schematics

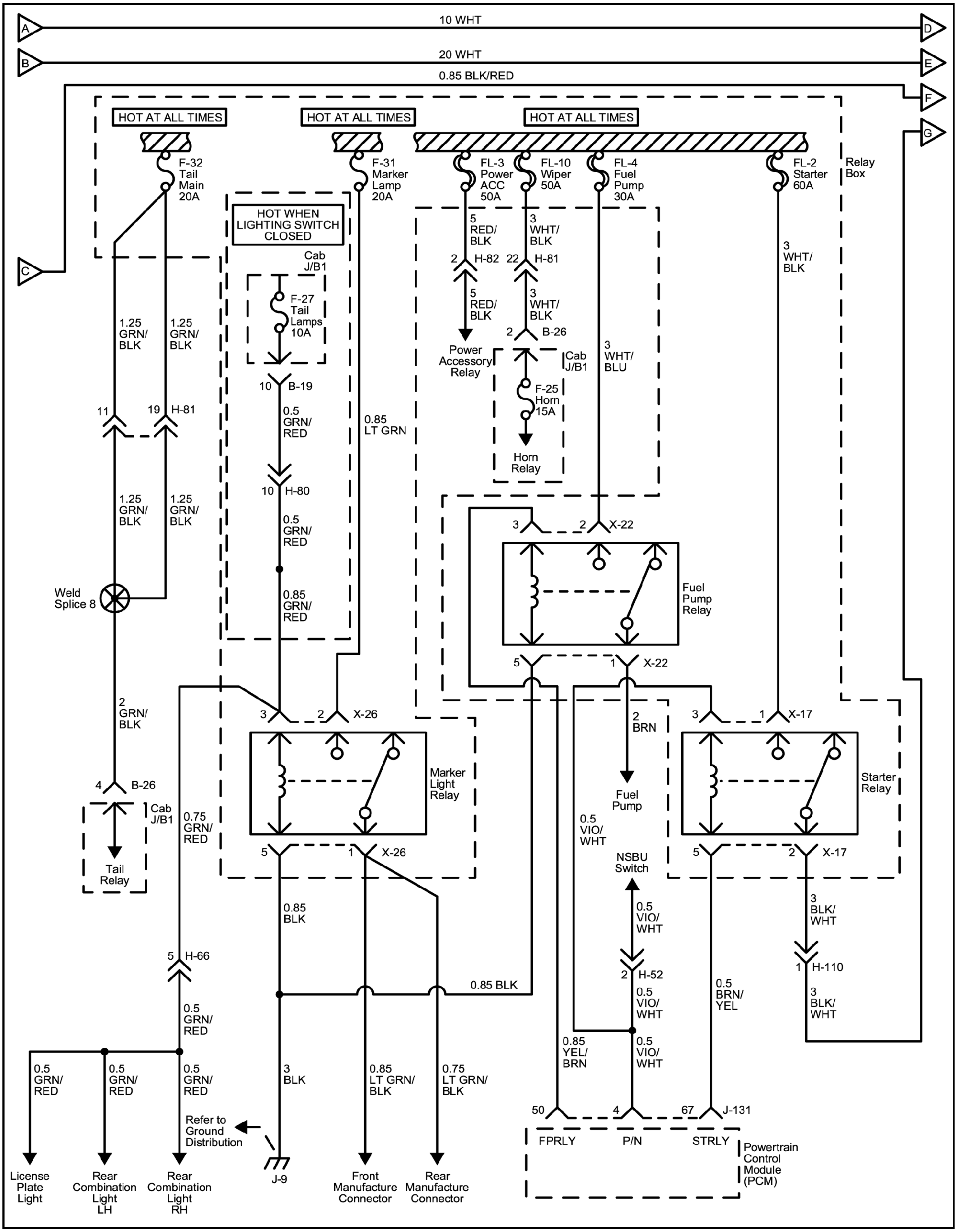

HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ON
Cab J/B1
F-28 Illuminations 10A
F-16 Mirror Heater 15A
Power Window Relay
0.85 WHT/ RED
B-17 8
B-22 21
10 B-18
8 B-22
5 B-20
1 B-23
0.5RED/YEL
0.85 WHT/ RED
0.85 WHT/ RED
8 6 1 3 B-174
Mirror Heater Switch
7 5 2 4 B-174
0.5 RED/ YEL
0.5 RED/ YEL
0.5 RED/ YEL
8 H-92
0.85 LT GRN/ RED
0.5 LT GRN/ RED
0.5 LT GRN/ BLK
0.5 BLK
9 H-87
0.5 RED/ YEL
0.5 RED/ YEL
2 B-256
7 B-254
18 B-259
Sub J/B
1 D-42
Mirror Heater RH
1 D-40
Mirror Heater LH
4 8 B-256
4 B-258
2 D-42
2 D-40
0.5 LT GRN/ BLK
2 BLK
0.5 BLK
0.5 BLK
1 H-87
9 H-92
Illumination Control Switch
0.5 BLK
0.5 BLK
Weld Splice 10
B-48 J/C-EA 10P1
7 4 10
3BLK
B-49 J/C-EA 10P2
8 10 5
3 BLK
3 BLK
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
B-53
B-52

4557688

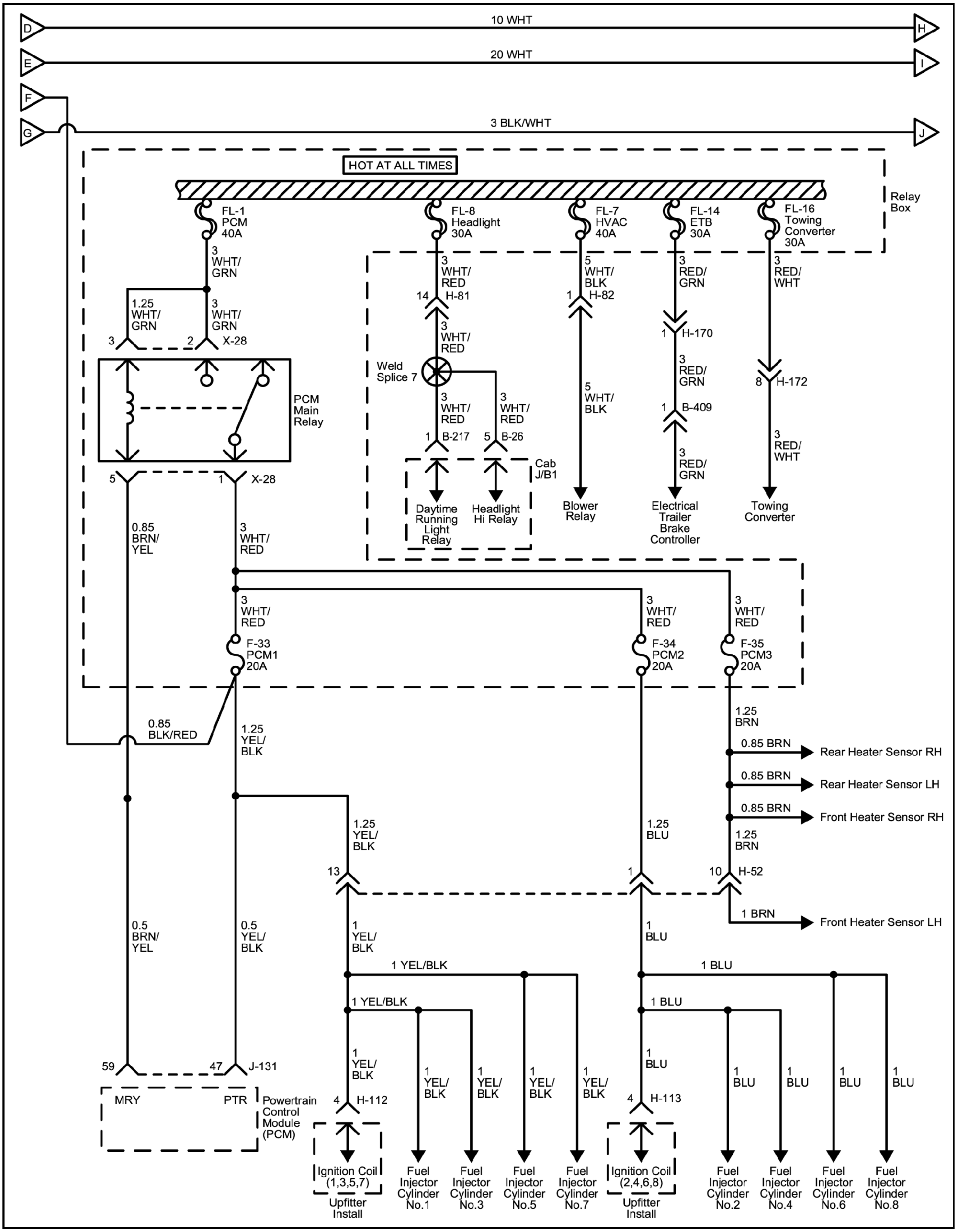
Power Distribution Schematics (Chassis)


10 WHT
A
20 WHT
B
Battery
P-1
+
-
P-5
Relay Box
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
F-38 Air Conditioner 10A
F-37 Condenser Fan 20A
F-36 Power Source 15A
FL-9 Rear Dome Light 30A
0.85 PNK
0.85 PNK
0.85 RED
3 WHT
0.85 BLK/RED
C
0.85 RED
0.85 PNK
0.85 RED
2 B-15
0.5 BLK/RED
2 B-259
Sub J/B
13 B-258
0.5 BLK/RED
22 H-80
0.5 BLK/RED
3 2 X-30
A/C Enable Relay
5 1 X-30
0.85 PNK
0.85 BRN/WHT
0.5 BRN/WHT
3 2 X-23
Rear Dome Light Relay
0.85 RED
5 1 X-23
0.85 YEL
0.75 RED
0.85 BLU
1 H-109
1 BLU
A/C Compressor
0.5 RED
0.5 YEL
21 20 H-80
0.5 RED
Rear Dome Light Switch
0.5 YEL
1 B-257
Sub J/B
2 10 B-257
2 WHT/BLK
0.85 RED
Rear Manufacture Connector
Front Manufacture Connector. A
3 1 X-20
Magnetic Clutch Relay
5 2 X-20
0.85 GRY
0.85 BLU
63 J-131
ACPR
Powertrain Control Module (PCM)
0.85 BLU
2 J-114
Diode 2
1 J-114
0.85 BLK
3 BLK
Refer to Ground Distribution
J-9
3 2 X-21
Condenser Fan Relay
5 1 X-21
0.5 GRY
0.85 BLU
9 H-80
0.5 GRY
0.85 BLK/GRN
0.85 BLU/BLK
0.5 YEL
0.5 YEL
2 WHT/BLK
2 WHT/BLK
Electronic Thermostat
Triple Pressure Switch
Triple Pressure Switch
Condenser Fan Motor
Rear Dome Light Switch
Rear Dome Light Switch
Front Manufacture Connector. A
Rear Manufacture Connector

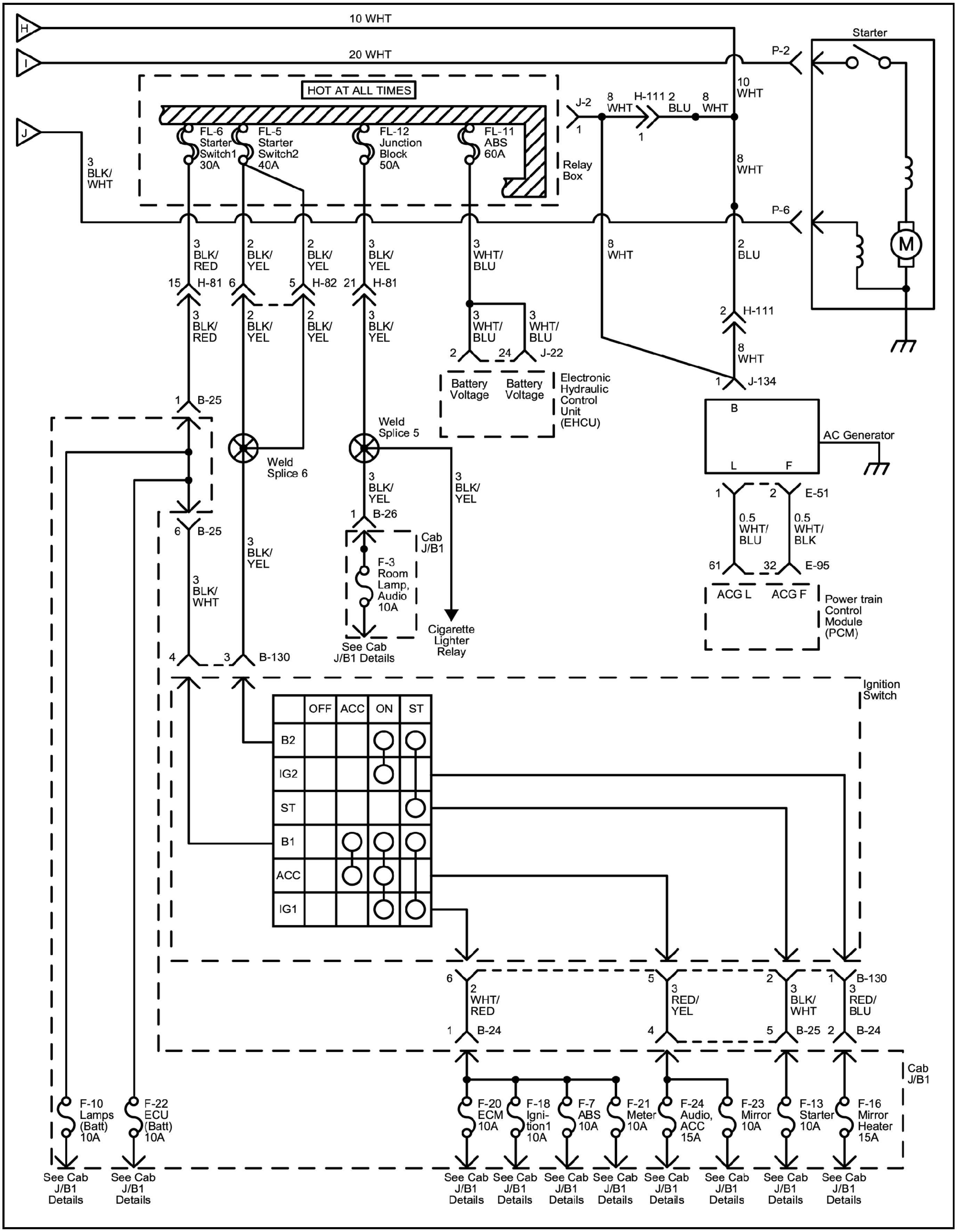
4556323


A
B
C
D
E
F
G
10 WHT
20 WHT
0.85 BLK/RED
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT AT ALL TIMES
F-32 Tail Main 20A
F-31 Marker Lamp 20A
FL-3 Power ACC 50A
FL-10 Wiper 50A
FL-4 Fuel Pump 30A
FL-2 Starter 60A
Relay Box
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-27 Tail Lamps 10A
5 RED/ BLK
3 WHT/ BLK
2 H-82
22 H-81
5 RED/ BLK
3 WHT/ BLK
2 B-26
Power Accessory Relay
Cab J/B1
F-25 Horn 15A
Horn Relay
3 WHT/ BLU
3 WHT/ BLK
1.25 GRN/ BLK
1.25 GRN/ BLK
11
19 H-81
10 B-19
0.5 GRN/ RED
0.85 LT GRN
10 H-80
0.5 GRN/ RED
1.25 GRN/ BLK
1.25 GRN/ BLK
0.85 GRN/ RED
Weld Splice 8
3 2 X-22
Fuel Pump Relay
5 1 X-22
2 GRN/ BLK
3 2 X-26
Marker Light Relay
5 1 X-26
2 BRN
Fuel Pump
3 1 X-17
Starter Relay
5 2 X-17
4 B-26
Cab J/B1
Tail Relay
0.75 GRN/ RED
0.5 VIO/ WHT
NSBU Switch
0.5 VIO/ WHT
0.85 BLK
3 BLK/ WHT
5 H-66
0.85 BLK
2 H-52
1 H-110
0.5 GRN/ RED
0.5 VIO/ WHT
0.5 BRN/ YEL
3 BLK/ WHT
0.85 YEL/ BRN
0.5 VIO/ WHT
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
3 BLK
0.85 LT GRN/ BLK
0.75 LT GRN/ BLK
Refer to Ground Distribution
50
4
67 J-131
FPRLY
P/N
STRLY
Powertrain Control Module (PCM)
License Plate Light
Rear Combination Light LH
Rear Combination Light RH
J-9
Front Manufacture Connector
Rear Manufacture Connector

4556340


D
E
F
G
H
I
J
10 WHT
20 WHT
3 BLK/WHT
HOT AT ALL TIMES
Relay Box
FL-1 PCM 40A
FL-8 Headlight 30A
FL-7 HVAC 40A
FL-14 ETB 30A
FL-16 Towing Converter 30A
3 WHT/GRN
1.25 WHT/GRN
X-28
PCM Main Relay
3 WHT/RED
14 H-81
5 WHT/BLK
1 H-82
3 RED/GRN
1 H-170
1 B-409
3 RED/WHT
8 H-172
Weld Splice 7
1 B-217
5 B-26
Cab J/B1
Daytime Running Light Relay
Headlight Hi Relay
Blower Relay
Electrical Trailer Brake Controller
Towing Converter
0.85 BRN/YEL
F-33 PCM1 20A
F-34 PCM2 20A
F-35 PCM3 20A
0.85 BLK/RED
1.25 YEL/BLK
1.25 BLU
1.25 BRN
0.85 BRN
Rear Heater Sensor RH
Rear Heater Sensor LH
Front Heater Sensor RH
H-52
1 BRN
Front Heater Sensor LH
0.5 BRN/YEL
0.5 YEL/BLK
1 YEL/BLK
1 BLU
59
47
J-131
MRY
PTR
Powertrain Control Module (PCM)
4 H-112
4 H-113
Ignition Coil (1,3,5,7)
Upfitter Install
Ignition Coil (2,4,6,8)
Upfitter Install
Fuel Injector Cylinder No.1
Fuel Injector Cylinder No.3
Fuel Injector Cylinder No.5
Fuel Injector Cylinder No.7
Fuel Injector Cylinder No.2
Fuel Injector Cylinder No.4
Fuel Injector Cylinder No.6
Fuel Injector Cylinder No.8

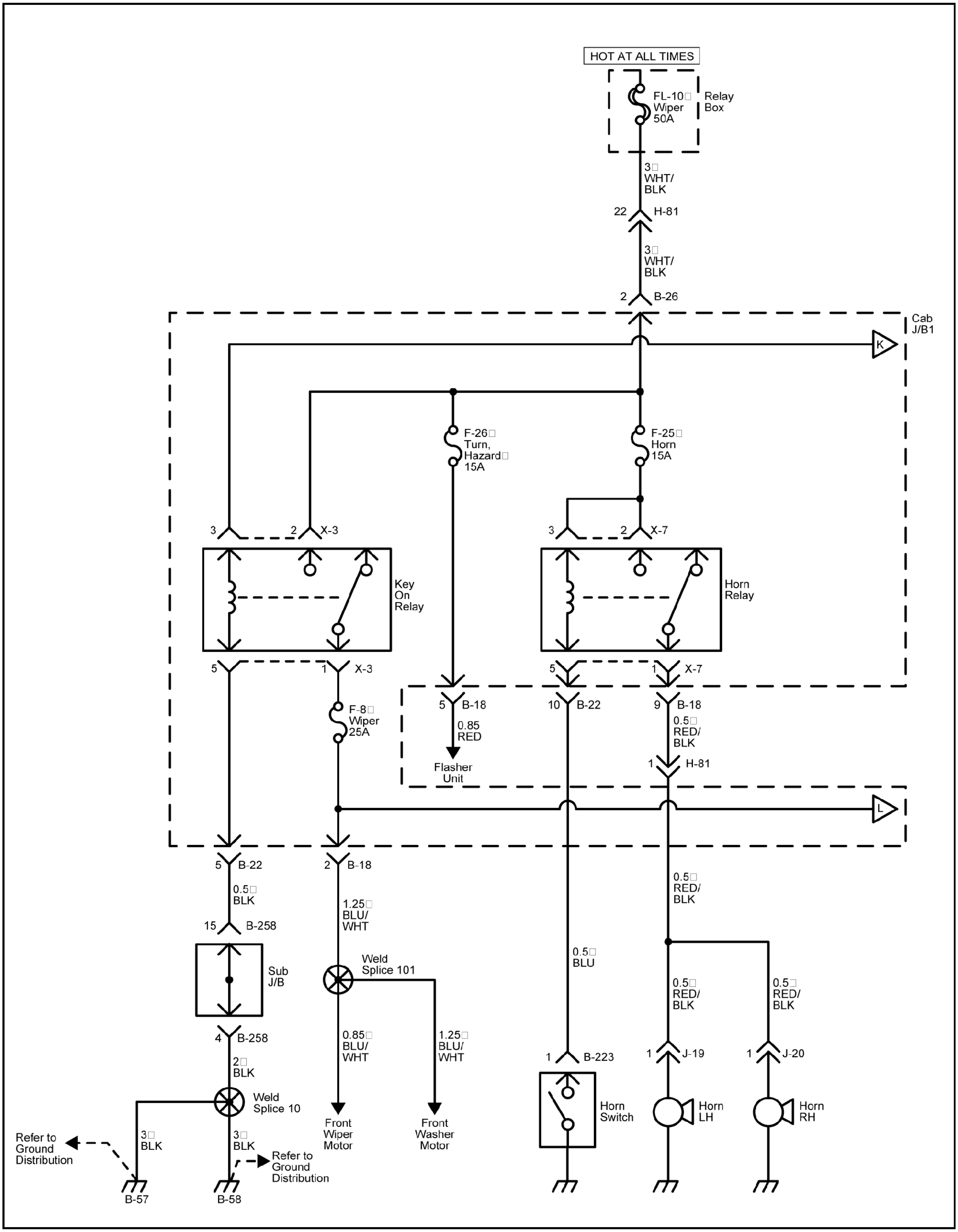
4556354


H
10 WHT
I
20 WHT
Starter
P-2
HOT AT ALL TIMES
J-2
1
8 WHT
H-111 2
1
2 BLU
8 WHT
10 WHT
J
3 BLK/WHT
FL-6 Starter Switch1 30A
FL-5 Starter Switch2 40A
FL-12 Junction Block 50A
FL-11 ABS 60A
Relay Box
8 WHT
P-6
M
3 BLK/RED
2 BLK/YEL
2 BLK/YEL
3 BLK/YEL
3 WHT/BLU
8 WHT
2 BLU
15 H-81 6
5 H-82 21 H-81
3 BLK/RED
2 BLK/YEL
2 BLK/YEL
3 BLK/YEL
3 WHT/BLU
3 WHT/BLU
2 24 J-22
2 H-111
8 WHT
Battery Voltage
Battery Voltage
Electronic Hydraulic Control Unit (EHCU)
1 J-134
1 B-25
B
AC Generator
L F
Weld Splice 6
Weld Splice 5
3 BLK/YEL
3 BLK/YEL
1 B-26
1 2 E-51
0.5 WHT/BLU
0.5 WHT/BLK
61 32 E-95
ACG L
ACG F
Power train Control Module (PCM)
6 B-25
3 BLK/YEL
3 BLK/WHT
Cab J/B1
F-3 Room Lamp, Audio 10A
See Cab J/B1 Details
Cigarette Lighter Relay
4 3 B-130
Ignition Switch
6
2 WHT/RED
1 B-24
5
3 RED/YEL
4
2
3 BLK/WHT
5 B-25
1 B-130
3 RED/BLU
2 B-24
Cab J/B1
F-10 Lamps (Batt) 10A
F-22 ECU (Batt) 10A
F-20 ECM 10A
F-18 Igni-tion1 10A
F-7 ABS 10A
F-21 Meter 10A
F-24 Audio, ACC 15A
F-23 Mirror 10A
F-13 Starter 10A
F-16 Mirror Heater 15A
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details

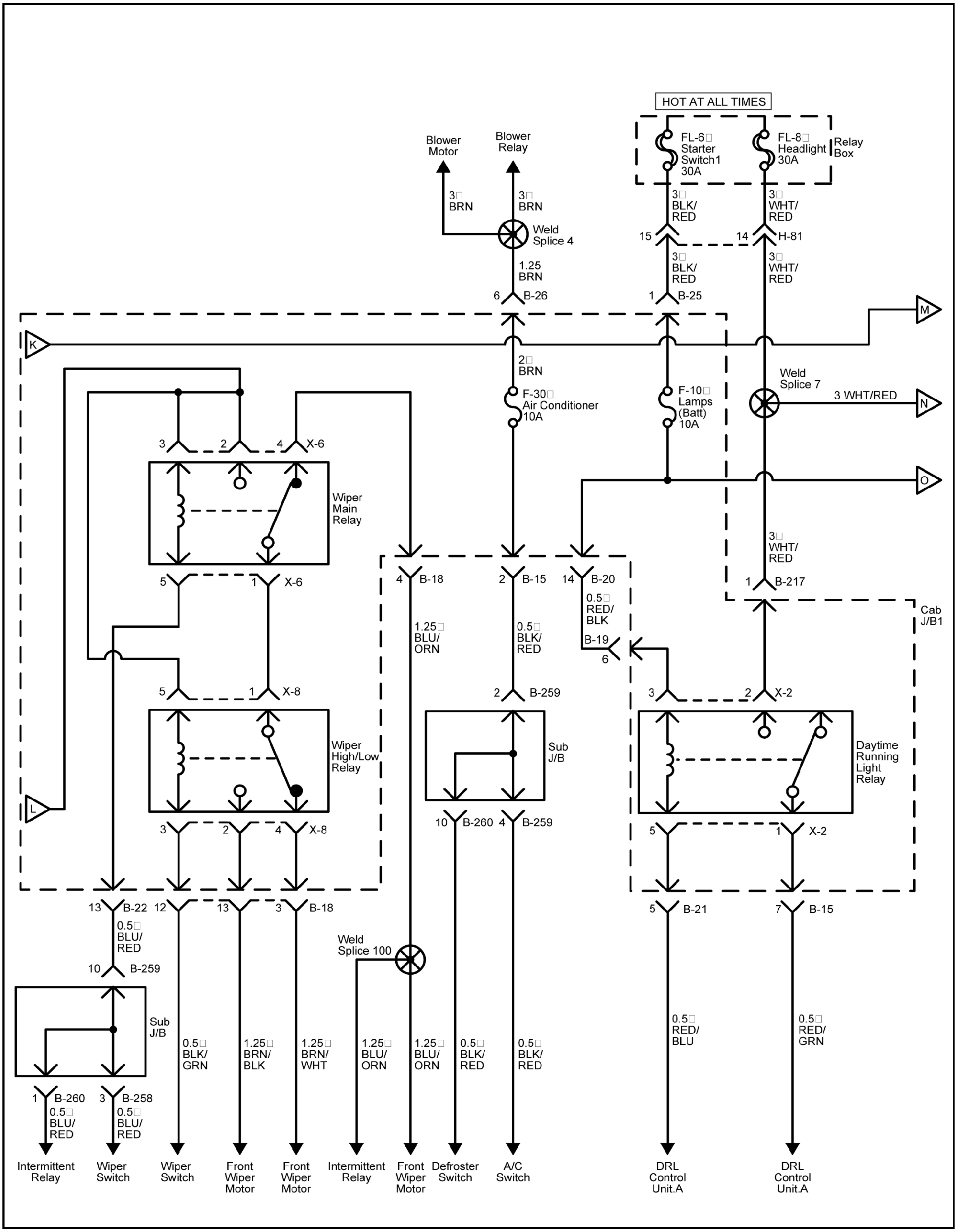
	OFF	ACC	ON	ST
B2			○	○
IG2			○	
ST				○
B1		○	○	○
ACC		○	○	
IG1			○	○

4556370

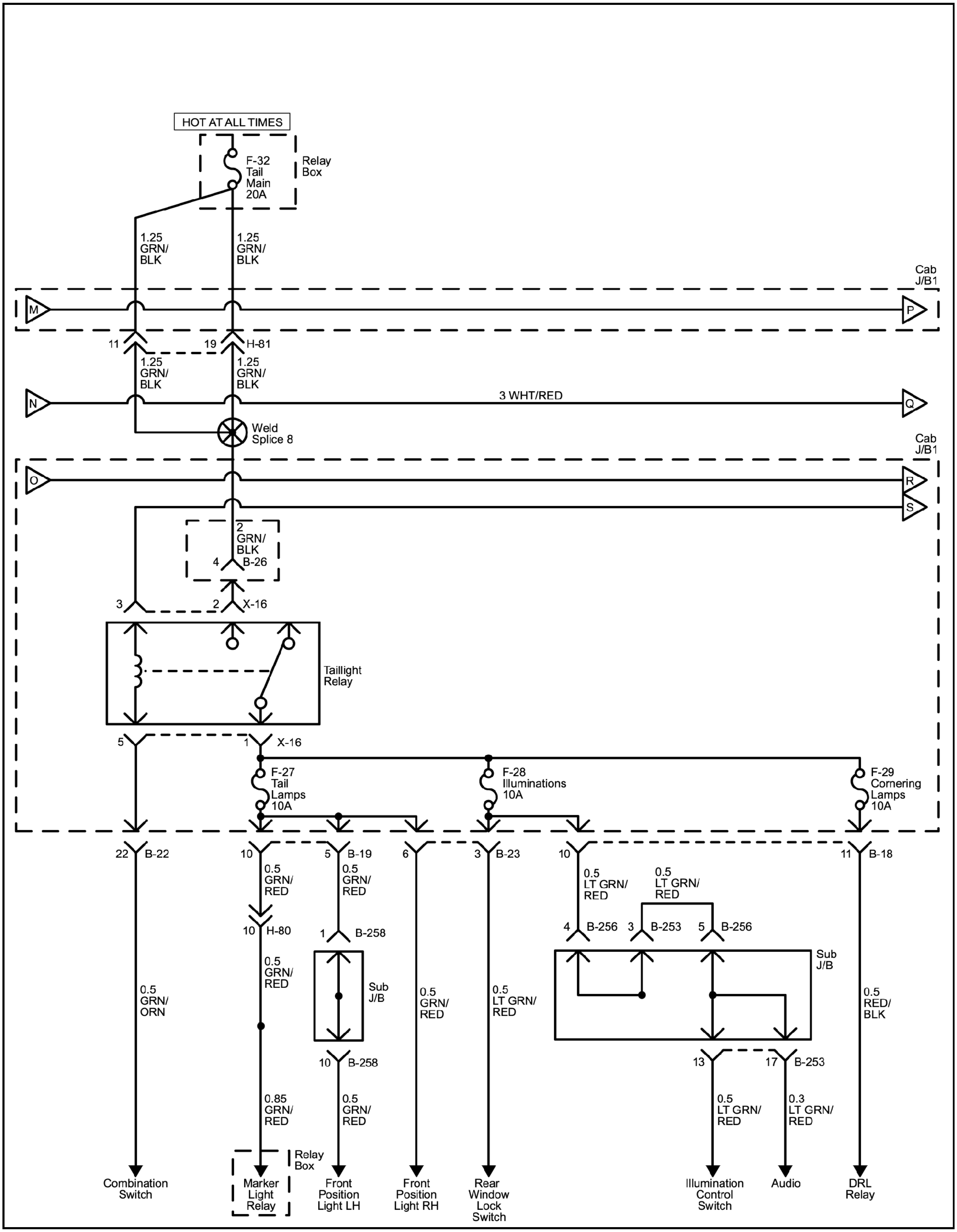
Power Distribution Schematics (Cab)


HOT AT ALL TIMES
FL-10 Wiper 50A
Relay Box
3 WHT/BLK
22 H-81
3 WHT/BLK
2 B-26
Cab J/B1
K
F-26 Turn, Hazard 15A
F-25 Horn 15A
3
2 X-3
3
2 X-7
Key On Relay
Horn Relay
5
1 X-3
5
1 X-7
5 B-18
10 B-22
9 B-18
F-8 Wiper 25A
0.85 RED
Flasher Unit
0.5 RED/BLK
1 H-81
L
5 B-22
2 B-18
0.5 BLK
1.25 BLU/WHT
0.5 RED/BLK
15 B-258
Sub J/B
Weld Splice 101
0.5 BLU
0.5 RED/BLK
0.5 RED/BLK
4 B-258
0.85 BLU/WHT
1.25 BLU/WHT
2 BLK
1 B-223
1 J-19
1 J-20
Weld Splice 10
Horn Switch
Horn LH
Horn RH
Front Wiper Motor
Front Washer Motor
Refer to Ground Distribution
3 BLK
3 BLK
Refer to Ground Distribution
B-57
B-58

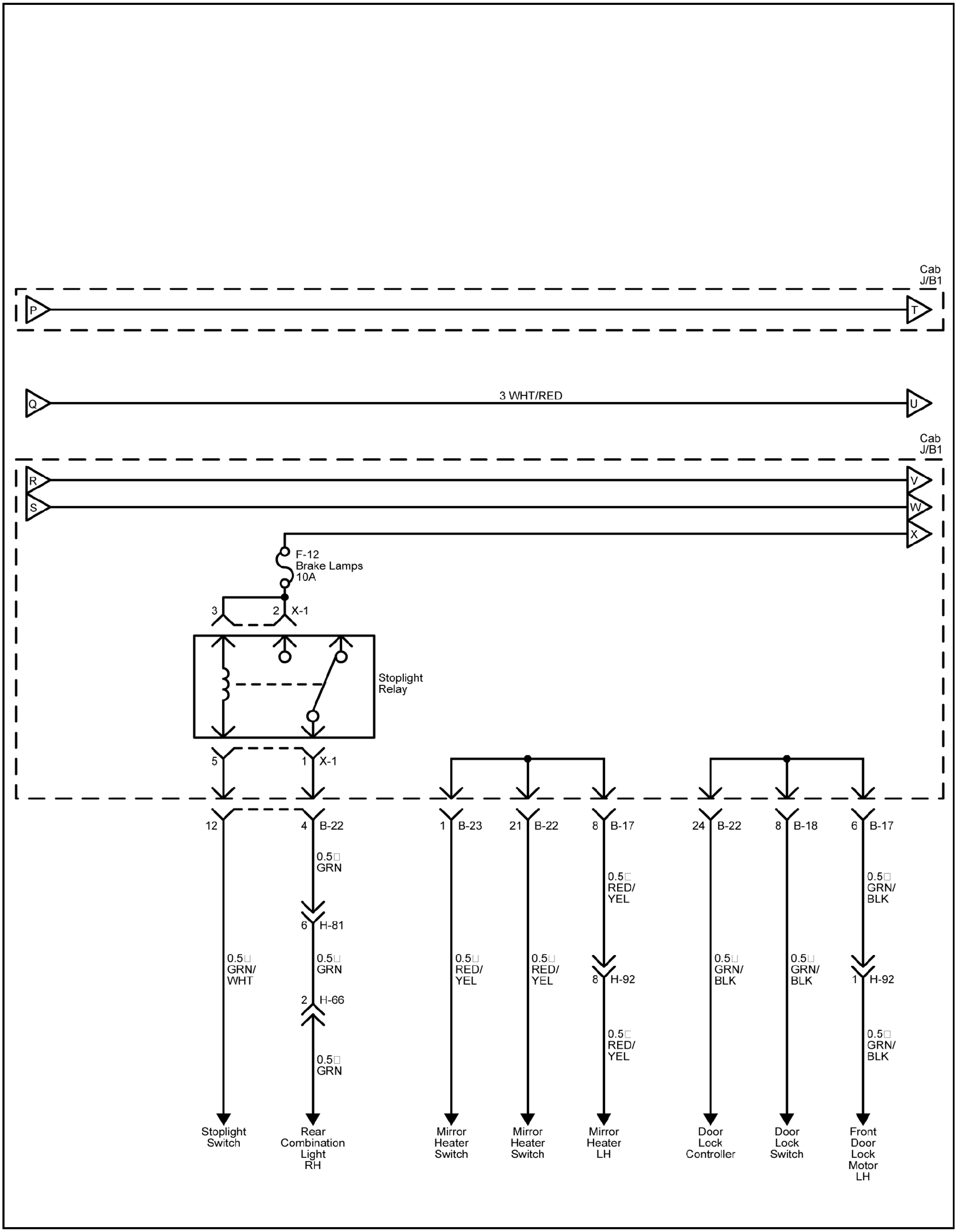
4556375


HOT AT ALL TIMES
FL-6□ Starter Switch1 30A
FL-8□ Headlight 30A
Relay Box
Blower Motor
Blower Relay
3□ BRN
3□ BRN
Weld Splice 4
1.25 BRN
6 B-26
3□ BLK/ RED
3□ WHT/ RED
15
14 H-81
3□ BLK/ RED
3□ WHT/ RED
1 B-25
M
K
2□ BRN
F-30□ Air Conditioner 10A
F-10□ Lamps (Batt) 10A
Weld Splice 7
3 WHT/RED
N
O
3 2 4 X-6
Wiper Main Relay
5 1 X-6
5 1 X-8
Wiper High/Low Relay
3 2 4 X-8
L
4 B-18
2 B-15
14 B-20
0.5□ RED/ BLK
B-19 6
1.25□ BLU/ ORN
0.5□ BLK/ RED
2 B-259
Sub J/B
10 B-260 4 B-259
3□ WHT/ RED
1 B-217
Cab J/B1
3 2 X-2
Daytime Running Light Relay
5 1 X-2
13 B-22 12 13 3 B-18
0.5□ BLU/ RED
10 B-259
Sub J/B
1 B-260 3 B-258
0.5□ BLU/ RED
0.5□ BLU/ RED
Weld Splice 100
0.5□ BLK/ GRN
1.25□ BRN/ BLK
1.25□ BRN/ WHT
1.25□ BLU/ ORN
1.25□ BLU/ ORN
0.5□ BLK/ RED
0.5□ BLK/ RED
5 B-21
7 B-15
0.5□ RED/ BLU
0.5□ RED/ GRN
Intermittent Relay
Wiper Switch
Wiper Switch
Front Wiper Motor
Front Wiper Motor
Intermittent Relay
Front Wiper Motor
Defroster Switch
A/C Switch
DRL Control Unit.A
DRL Control Unit.A

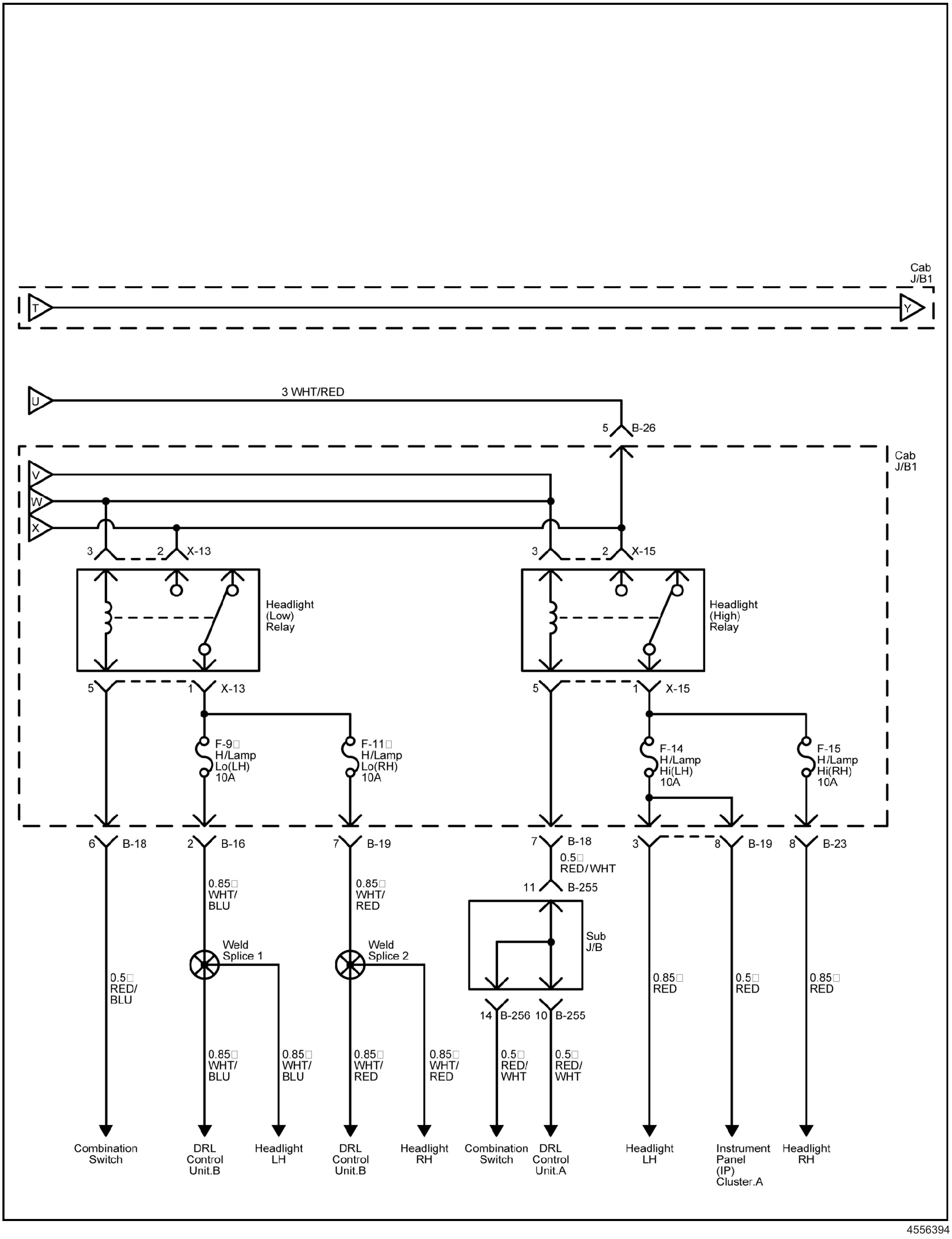
4556382


HOT AT ALL TIMES
F-32
Tail
Main
20A
Relay
Box
1.25
GRN/
BLK
1.25
GRN/
BLK
Cab
J/B1
M
P
11
19
H-81
1.25
GRN/
BLK
1.25
GRN/
BLK
N
3 WHT/RED
Q
Weld
Splice 8
Cab
J/B1
O
R
S
2
GRN/
BLK
4
B-26
3
2
X-16
Taillight
Relay
5
1
X-16
F-27
Tail
Lamps
10A
F-28
Illuminations
10A
F-29
Cornering
Lamps
10A
22
B-22
10
5
B-19
6
3
B-23
10
11
B-18
0.5
GRN/
RED
0.5
GRN/
RED
0.5
LT GRN/
RED
0.5
LT GRN/
RED
10
H-80
1
B-258
4
B-256
3
B-253
5
B-256
0.5
GRN/
RED
Sub
J/B
Sub
J/B
0.5
GRN/
ORN
0.5
GRN/
RED
0.5
LT GRN/
RED
0.5
RED/
BLK
10
B-258
13
17
B-253
0.85
GRN/
RED
0.5
GRN/
RED
0.5
LT GRN/
RED
0.3
LT GRN/
RED
Relay
Box
Combination
Switch
Marker
Light
Relay
Front
Position
Light LH
Front
Position
Light RH
Rear
Window
Lock
Switch
Illumination
Control
Switch
Audio
DRL
Relay

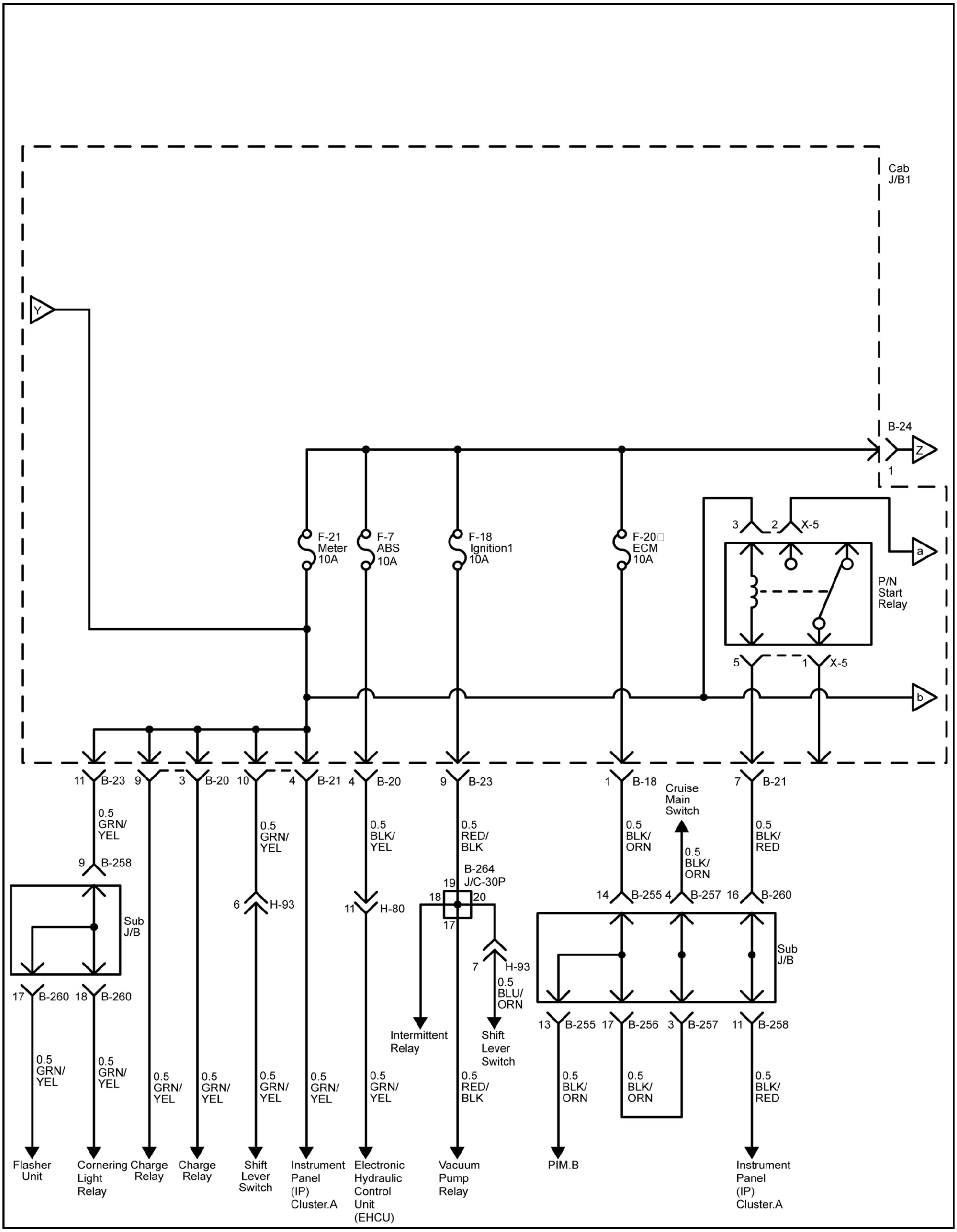
4556386


Cab
J/B1
P
T
Q
3 WHT/RED
U
Cab
J/B1
R
V
S
W
X
F-12
Brake Lamps
10A
3
2
X-1
Stoplight
Relay
5
1
X-1
12
4
B-22
1
B-23
21
B-22
8
B-17
24
B-22
8
B-18
6
B-17
0.5□
GRN
6
H-81
0.5□
GRN/
WHT
0.5□
GRN
2
H-66
0.5□
GRN
0.5□
RED/
YEL
0.5□
RED/
YEL
0.5□
RED/
YEL
8
H-92
0.5□
RED/
YEL
0.5□
GRN/
BLK
0.5□
GRN/
BLK
0.5□
GRN/
BLK
1
H-92
0.5□
GRN/
BLK
Stoplight
Switch
Rear
Combination
Light
RH
Mirror
Heater
Switch
Mirror
Heater
Switch
Mirror
Heater
LH
Door
Lock
Controller
Door
Lock
Switch
Front
Door
Lock
Motor
LH

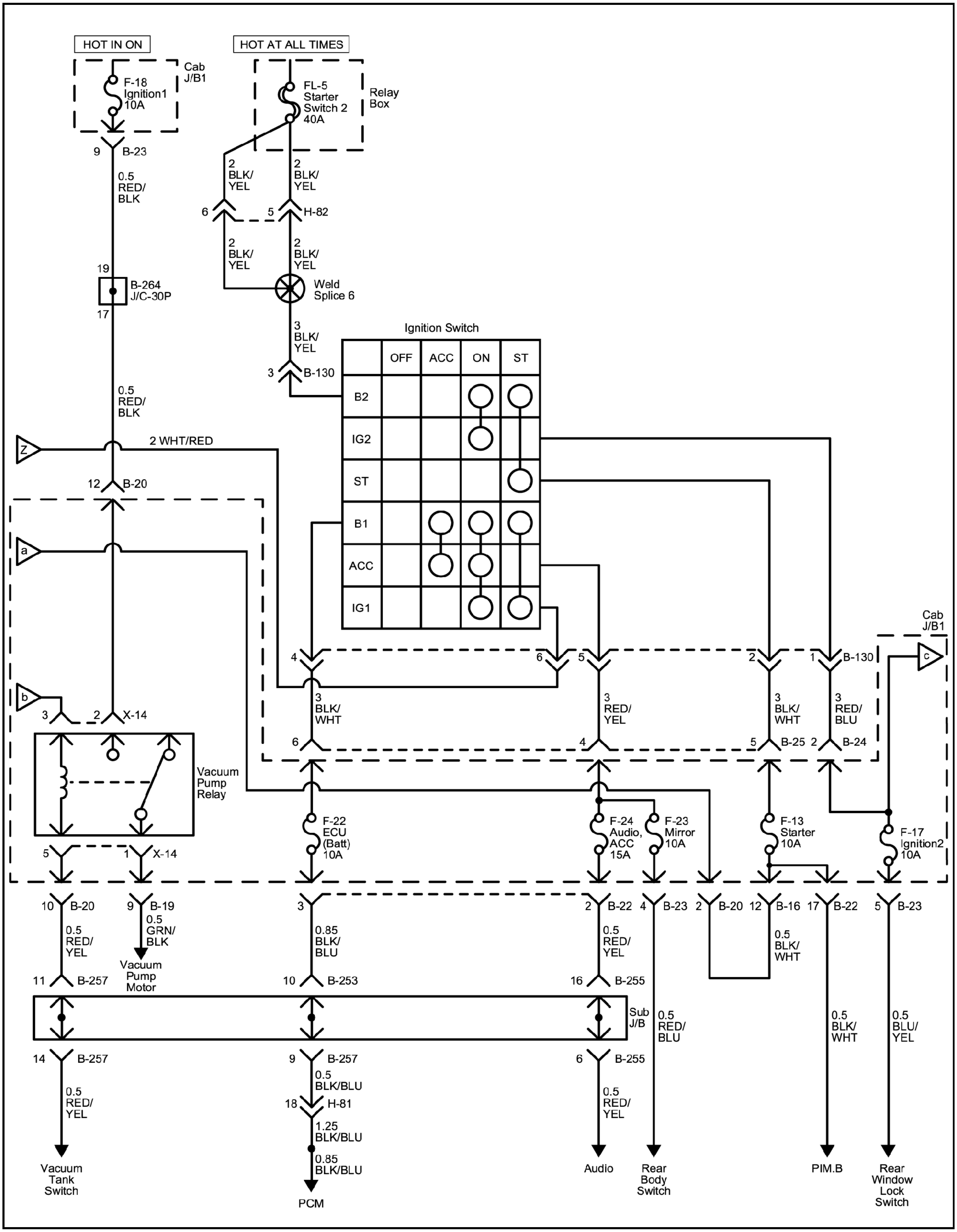
4556392


Cab
J/B1
T
Y
U
3 WHT/RED
5 B-26
Cab
J/B1
V
W
X
3
2 X-13
3
2 X-15
Headlight
(Low)
Relay
Headlight
(High)
Relay
5
1 X-13
5
1 X-15
F-9
H/Lamp
Lo(LH)
10A
F-11
H/Lamp
Lo(RH)
10A
F-14
H/Lamp
Hi(LH)
10A
F-15
H/Lamp
Hi(RH)
10A
6 B-18
2 B-16
7 B-19
7 B-18
0.5
RED/WHT
11 B-255
3
8 B-19
8 B-23
0.85
WHT/
BLU
0.85
WHT/
RED
Weld
Splice 1
Weld
Splice 2
Sub
J/B
0.5
RED/
BLU
0.85
RED
0.5
RED
0.85
RED
14 B-256
10 B-255
0.85
WHT/
BLU
0.85
WHT/
BLU
0.85
WHT/
RED
0.85
WHT/
RED
0.5
RED/
WHT
0.5
RED/
WHT
Combination
Switch
DRL
Control
Unit.B
Headlight
LH
DRL
Control
Unit.B
Headlight
RH
Combination
Switch
DRL
Control
Unit.A
Headlight
LH
Instrument
Panel
(IP)
Cluster.A
Headlight
RH

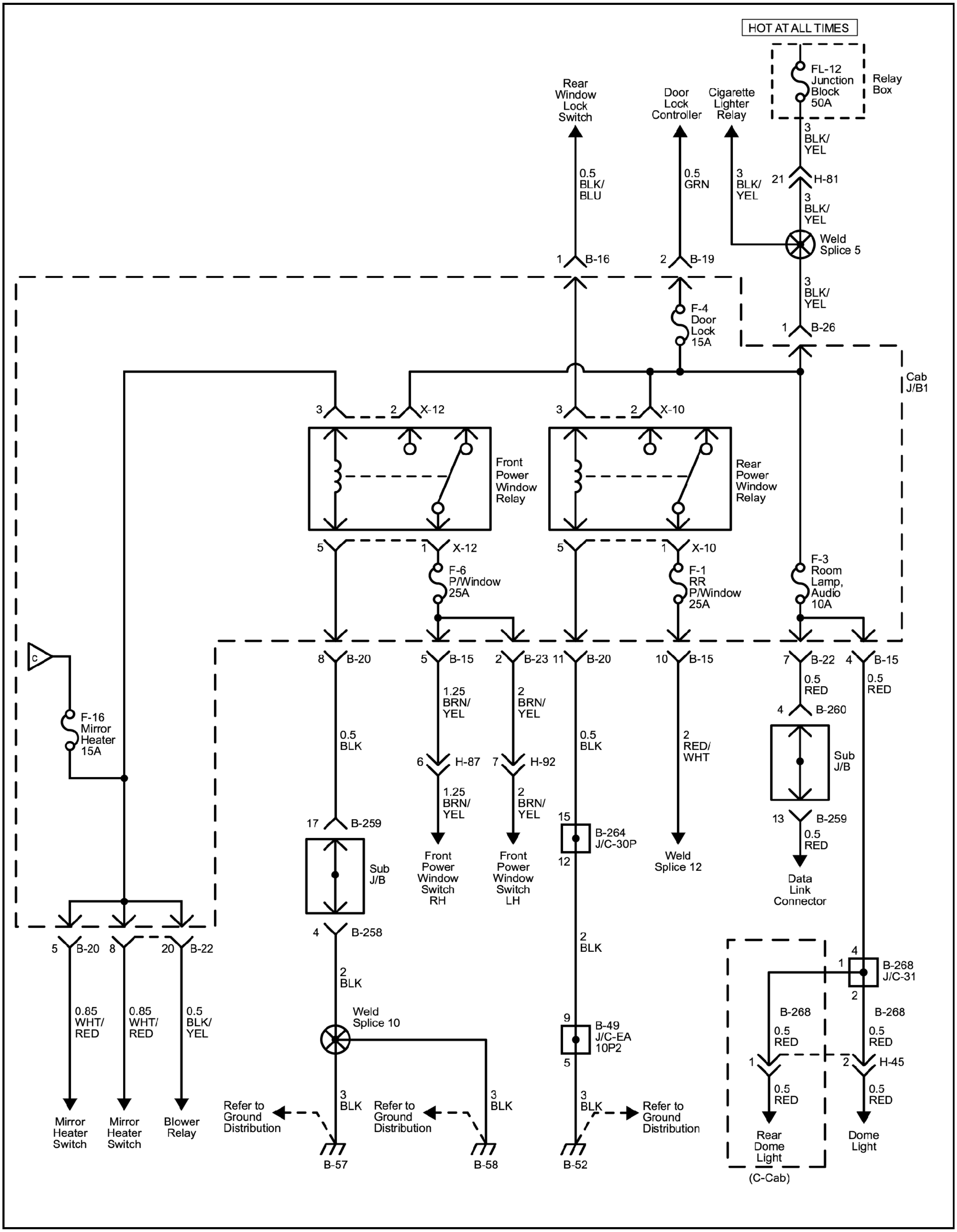
4556394


Cab J/B1
Y
B-24
1
Z
F-21 Meter 10A
F-7 ABS 10A
F-18 Ignition1 10A
F-20 ECM 10A
3
2
X-5
a
P/N Start Relay
5
1
X-5
b
11 B-23
9
3 B-20
10
4 B-21
4 B-20
9 B-23
1 B-18
7 B-21
0.5 GRN/ YEL
9 B-258
Sub J/B
17 B-260
18 B-260
0.5 GRN/ YEL
6 H-93
0.5 BLK/ YEL
11 H-80
0.5 RED/ BLK
B-264 J/C-30P
19
18
20
17
7 H-93
0.5 BLU/ ORN
0.5 BLK/ ORN
Cruise Main Switch
0.5 BLK/ ORN
0.5 BLK/ RED
14 B-255
4 B-257
16 B-260
Sub J/B
13 B-255
17 B-256
3 B-257
11 B-258
0.5 GRN/ YEL
0.5 GRN/ YEL
0.5 GRN/ YEL
0.5 GRN/ YEL
0.5 GRN/ YEL
0.5 GRN/ YEL
0.5 GRN/ YEL
0.5 RED/ BLK
0.5 BLK/ ORN
0.5 BLK/ ORN
0.5 BLK/ RED
Intermittent Relay
Shift Lever Switch
Flasher Unit
Cornering Light Relay
Charge Relay
Charge Relay
Shift Lever Switch
Instrument Panel (IP) Cluster.A
Electronic Hydraulic Control Unit (EHCU)
Vacuum Pump Relay
PIM.B
Instrument Panel (IP) Cluster.A

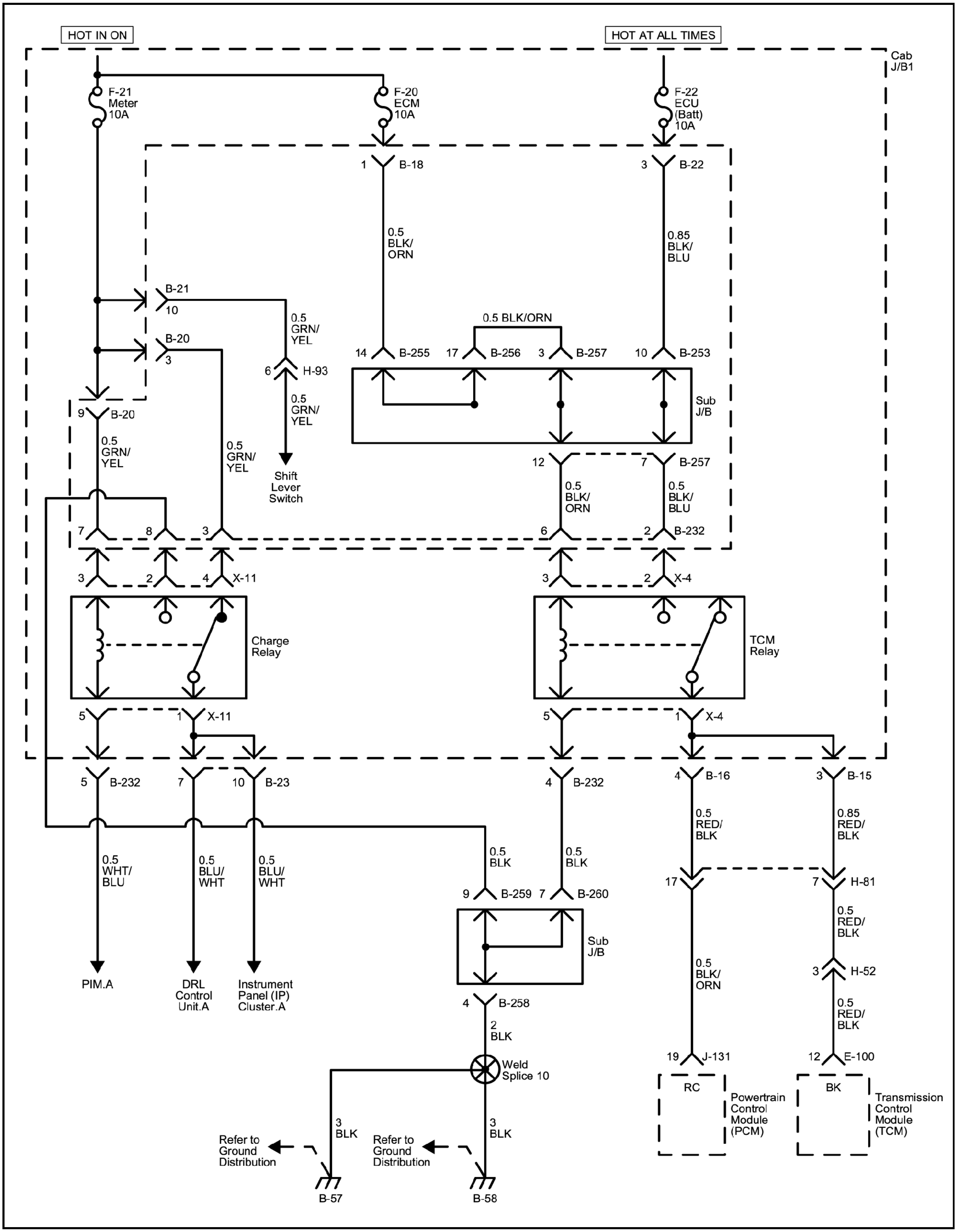
4556406


HOT IN ON
HOT AT ALL TIMES
Cab J/B1
F-18 Ignition1 10A
FL-5 Starter Switch 2 40A
Relay Box
9 B-23
0.5 RED/ BLK
2 BLK/ YEL
2 BLK/ YEL
6
5 H-82
2 BLK/ YEL
2 BLK/ YEL
19
B-264 J/C-30P
17
Weld Splice 6
3 BLK/ YEL
3 B-130
Ignition Switch
OFF
ACC
ON
ST
B2
IG2
ST
B1
ACC
IG1
0.5 RED/ BLK
Z
2 WHT/RED
12 B-20
a
b
3
2 X-14
Vacuum Pump Relay
5
1 X-14
4
6
5
2
1 B-130
Cab J/B1
c
3 BLK/ WHT
3 RED/ YEL
3 BLK/ WHT
3 RED/ BLU
6
4
5 B-25
2 B-24
F-22 ECU (Batt) 10A
F-24 Audio, ACC 15A
F-23 Mirror 10A
F-13 Starter 10A
F-17 Ignition2 10A
10 B-20
9 B-19
3
2 B-22
4 B-23
2 B-20
12 B-16
17 B-22
5 B-23
0.5 RED/ YEL
0.5 GRN/ BLK
Vacuum Pump Motor
0.85 BLK/ BLU
0.5 RED/ YEL
0.5 BLK/ WHT
11 B-257
10 B-253
16 B-255
Sub J/B
0.5 RED/ BLU
0.5 BLK/ WHT
0.5 BLU/ YEL
14 B-257
9 B-257
6 B-255
0.5 RED/ YEL
0.5 BLK/BLU
18 H-81
1.25 BLK/BLU
0.85 BLK/BLU
0.5 RED/ YEL
Vacuum Tank Switch
PCM
Audio
Rear Body Switch
PIM.B
Rear Window Lock Switch

4556434

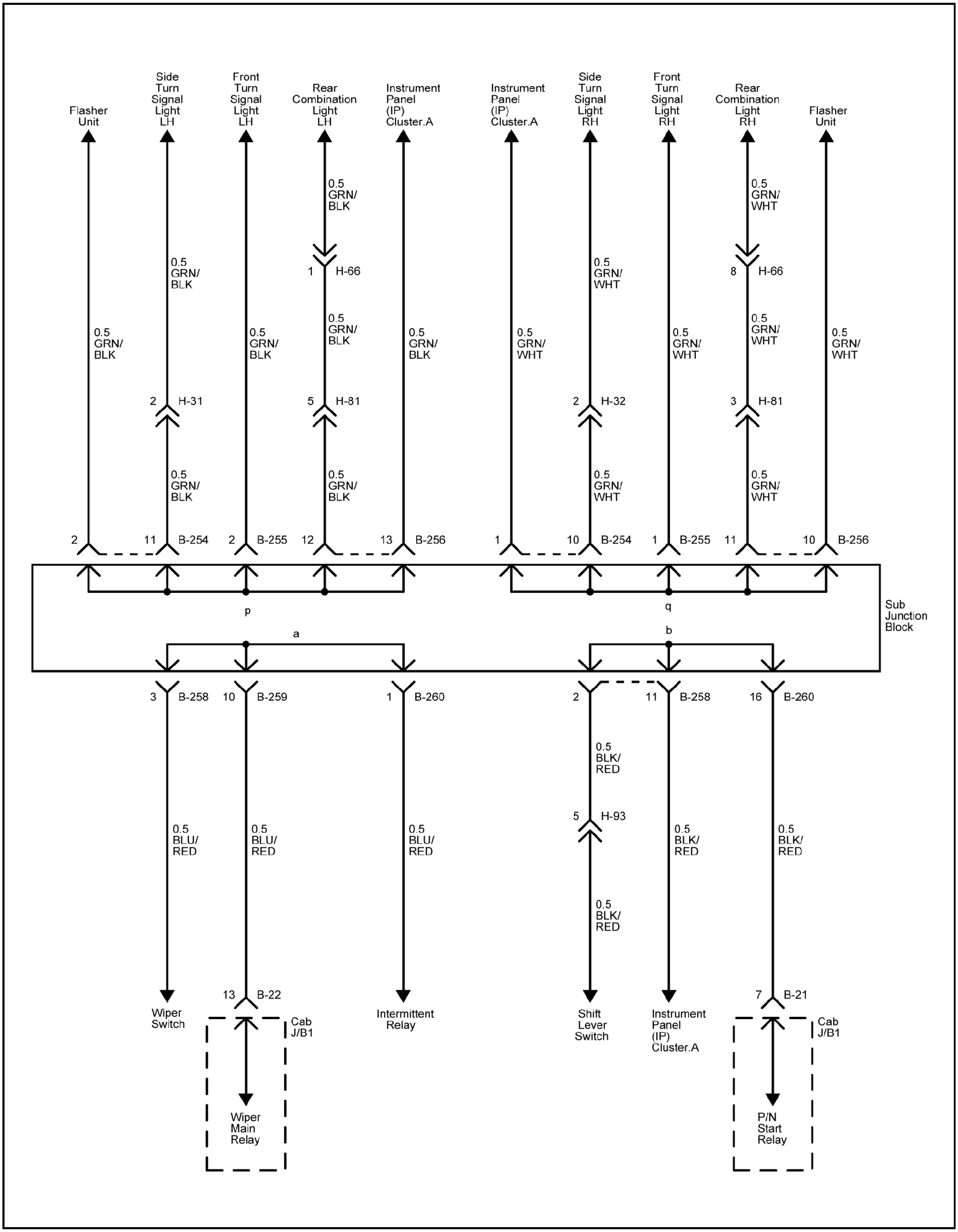

HOT AT ALL TIMES
FL-12 Junction Block 50A
Relay Box
3 BLK/ YEL
21 H-81
3 BLK/ YEL
Weld Splice 5
3 BLK/ YEL
1 B-26
Rear Window Lock Switch
0.5 BLK/ BLU
1 B-16
Door Lock Controller
0.5 GRN
2 B-19
Cigarette Lighter Relay
3 BLK/ YEL
F-4 Door Lock 15A
Cab J/B1
3 2 X-12
Front Power Window Relay
5 1 X-12
F-6 P/Window 25A
3 2 X-10
Rear Power Window Relay
5 1 X-10
F-1 RR P/Window 25A
F-3 Room Lamp, Audio 10A
C
F-16 Mirror Heater 15A
8 B-20
0.5 BLK
17 B-259
Sub J/B
4 B-258
2 BLK
Weld Splice 10
3 BLK
Refer to Ground Distribution
B-57
3 BLK
Refer to Ground Distribution
B-58
5 B-15
1.25 BRN/ YEL
6 H-87
1.25 BRN/ YEL
Front Power Window Switch RH
2 B-23
2 BRN/ YEL
7 H-92
2 BRN/ YEL
Front Power Window Switch LH
11 B-20
0.5 BLK
15 B-264 J/C-30P 12
2 BLK
9 B-49 J/C-EA 10P2 5
3 BLK
Refer to Ground Distribution
B-52
10 B-15
2 RED/ WHT
Weld Splice 12
7 B-22
0.5 RED
4 B-260
Sub J/B
13 B-259
0.5 RED
Data Link Connector
4 B-15
0.5 RED
4 1 B-268 J/C-31 2
B-268
0.5 RED
1 2 H-45
B-268
0.5 RED
0.5 RED
Rear Dome Light
(C-Cab)
0.5 RED
Dome Light
5 B-20
0.85 WHT/ RED
Mirror Heater Switch
8
0.85 WHT/ RED
Mirror Heater Switch
20 B-22
0.5 BLK/ YEL
Blower Relay

4556449

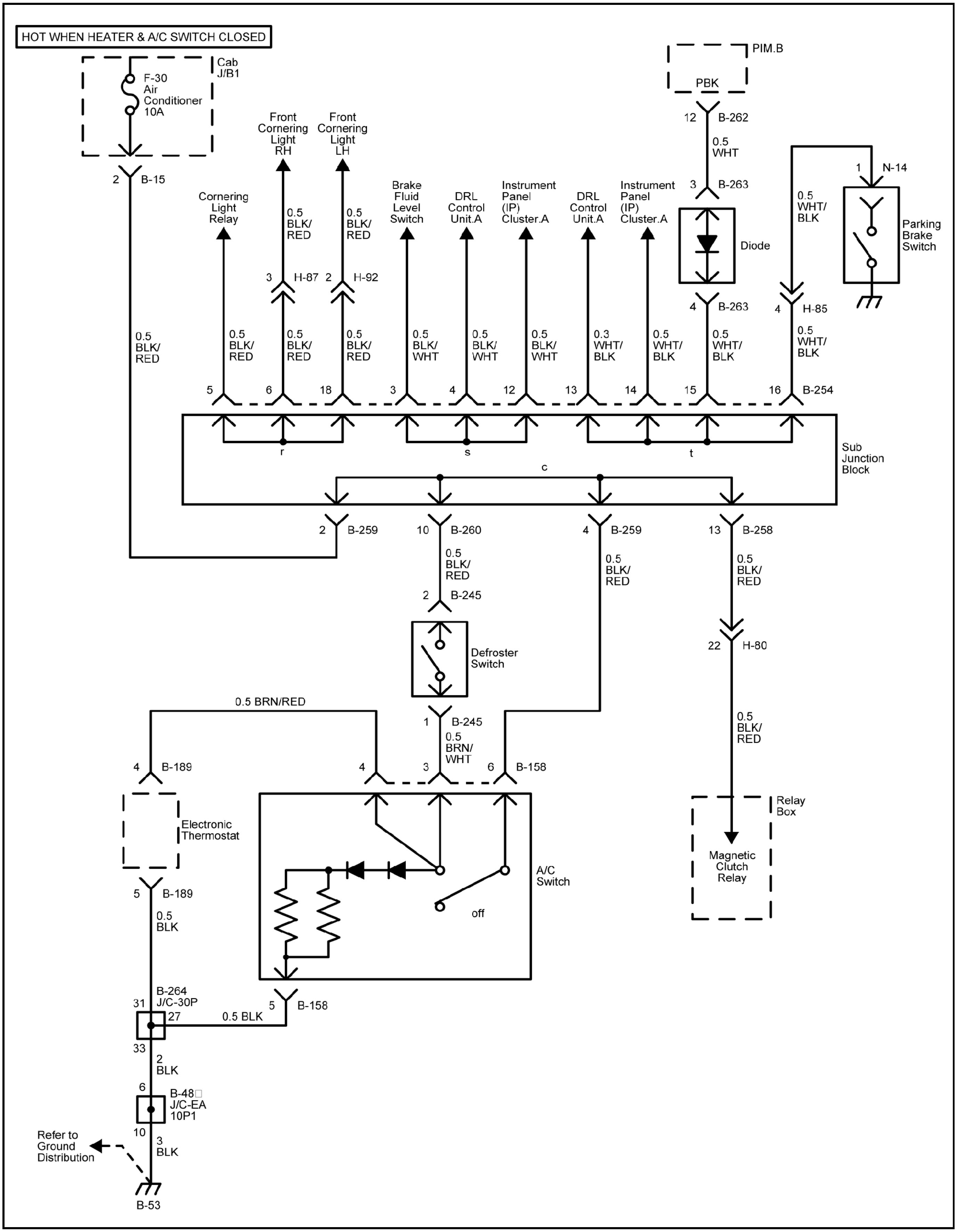

HOT IN ON
HOT AT ALL TIMES
Cab J/B1
F-21 Meter 10A
F-20 ECM 10A
F-22 ECU (Batt) 10A
1 B-18
3 B-22
0.5 BLK/ ORN
0.85 BLK/ BLU
B-21 10
0.5 GRN/ YEL
B-20 3
6 H-93
0.5 BLK/ORN
14 B-255
17 B-256
3 B-257
10 B-253
Sub J/B
9 B-20
0.5 GRN/ YEL
0.5 GRN/ YEL
0.5 GRN/ YEL
Shift Lever Switch
12
7 B-257
0.5 BLK/ ORN
0.5 BLK/ BLU
7
8
3
6
2 B-232
3
2
4 X-11
3
2 X-4
Charge Relay
TCM Relay
5
1 X-11
5
1 X-4
5 B-232
7
10 B-23
4 B-232
4 B-16
3 B-15
0.5 RED/ BLK
0.85 RED/ BLK
0.5 WHT/ BLU
0.5 BLU/ WHT
0.5 BLU/ WHT
0.5 BLK
0.5 BLK
9 B-259
7 B-260
17
7 H-81
0.5 RED/ BLK
Sub J/B
0.5 BLK/ ORN
3 H-52
0.5 RED/ BLK
PIM.A
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
4 B-258
2 BLK
Weld Splice 10
19 J-131
12 E-100
RC
Powertrain Control Module (PCM)
BK
Transmission Control Module (TCM)
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58

4556468

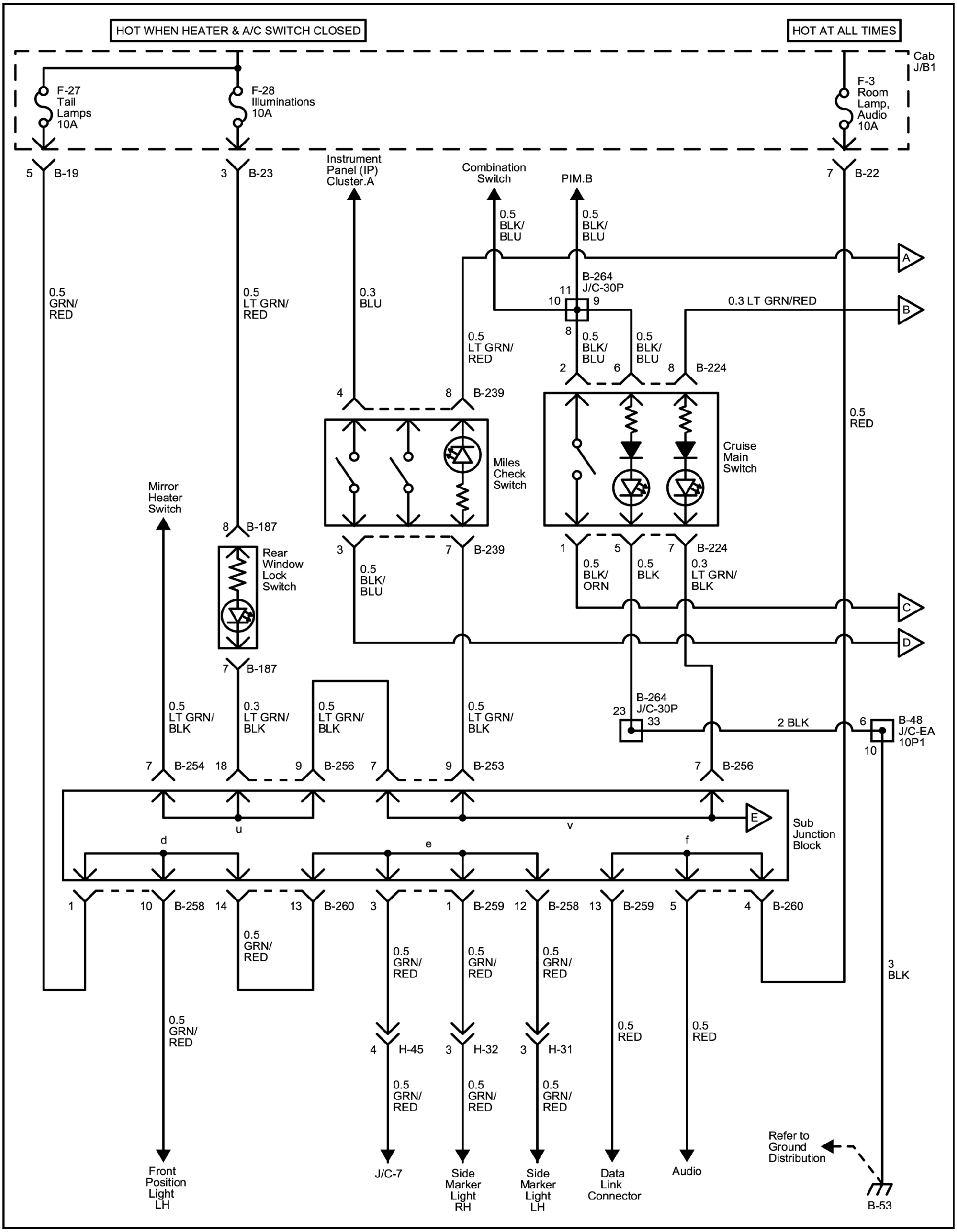
Sub Junction Block Schematics


Flasher Unit
Side Turn Signal Light LH
Front Turn Signal Light LH
Rear Combination Light LH
Instrument Panel (IP) Cluster.A
Instrument Panel (IP) Cluster.A
Side Turn Signal Light RH
Front Turn Signal Light RH
Rear Combination Light RH
Flasher Unit
0.5 GRN/BLK
1 H-66
5 H-81
2 H-31
0.5 GRN/WHT
8 H-66
2 H-32
3 H-81
2 11 B-254
2 B-255
12
13 B-256
1
10 B-254
1 B-255
11
10 B-256
p
q
a
b
Sub Junction Block
3 B-258
10 B-259
1 B-260
2
11 B-258
16 B-260
0.5 BLU/RED
0.5 BLK/RED
5 H-93
13 B-22
7 B-21
Wiper Switch
Cab J/B1
Wiper Main Relay
Intermittent Relay
Shift Lever Switch
Instrument Panel (IP) Cluster.A
Cab J/B1
P/N Start Relay

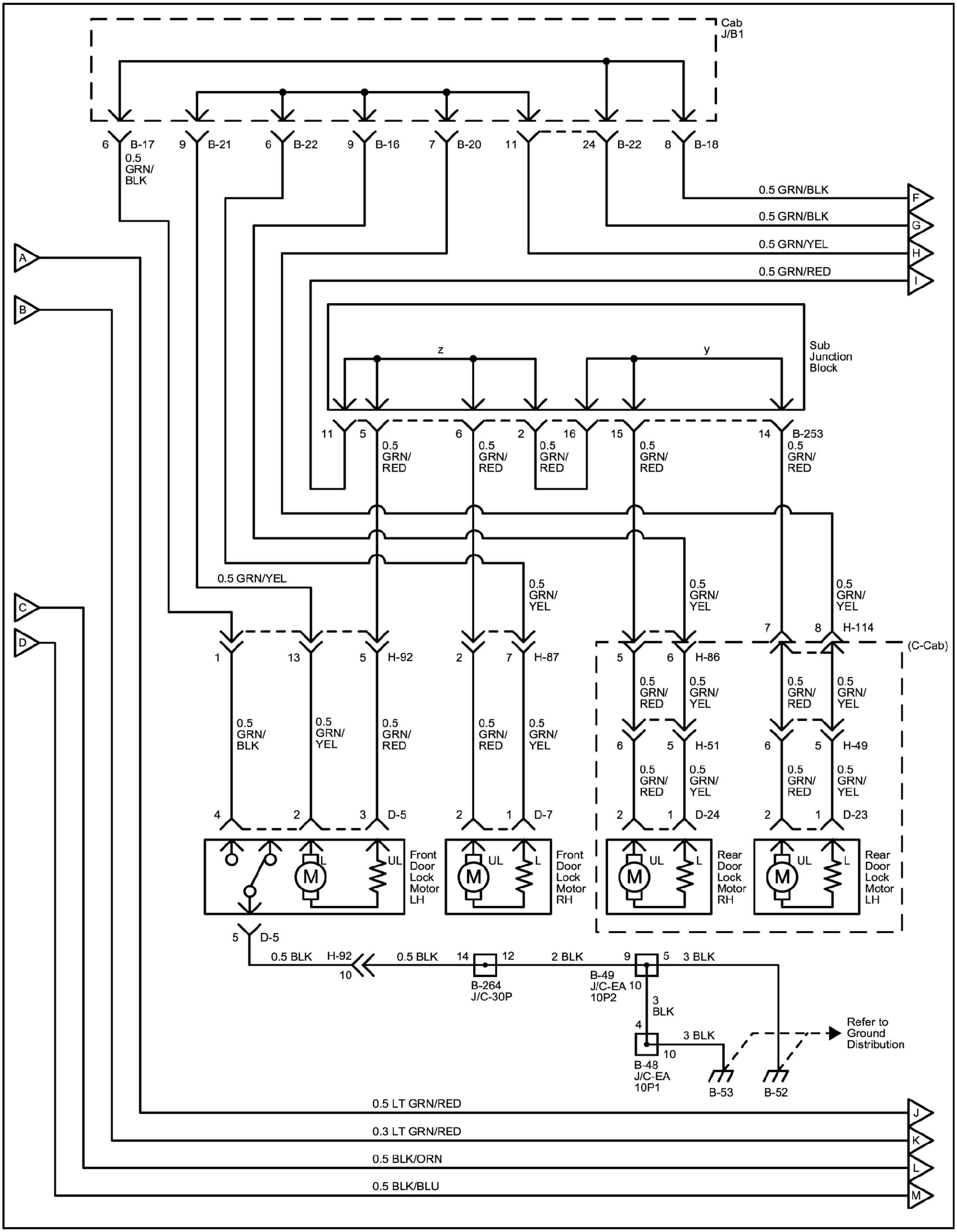
4557692


HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
2 B-15
0.5 BLK/ RED
Cornering Light Relay
Front Cornering Light RH
Front Cornering Light LH
0.5 BLK/ RED
3 H-87
2 H-92
Brake Fluid Level Switch
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
DRL Control Unit.A
Instrument Panel (IP) Cluster.A
PIM.B
PBK
12 B-262
0.5 WHT
3 B-263
Diode
4 B-263
1 N-14
0.5 WHT/ BLK
Parking Brake Switch
4 H-85
0.5 BLK/ RED
0.5 BLK/ WHT
0.3 WHT/ BLK
0.5 WHT/ BLK
5
6
18
3
4
12
13
14
15
16 B-254
r
s
t
c
Sub Junction Block
2 B-259
10 B-260
4 B-259
13 B-258
0.5 BLK/ RED
2 B-245
Defroster Switch
1 B-245
0.5 BRN/ WHT
22 H-80
0.5 BRN/RED
4 B-189
4
3
6 B-158
Electronic Thermostat
A/C Switch
off
5 B-189
0.5 BLK
Relay Box
Magnetic Clutch Relay
B-264 J/C-30P
31
27
0.5 BLK
5 B-158
33
2 BLK
6
B-48 J/C-EA 10P1
10
3 BLK
Refer to Ground Distribution
B-53

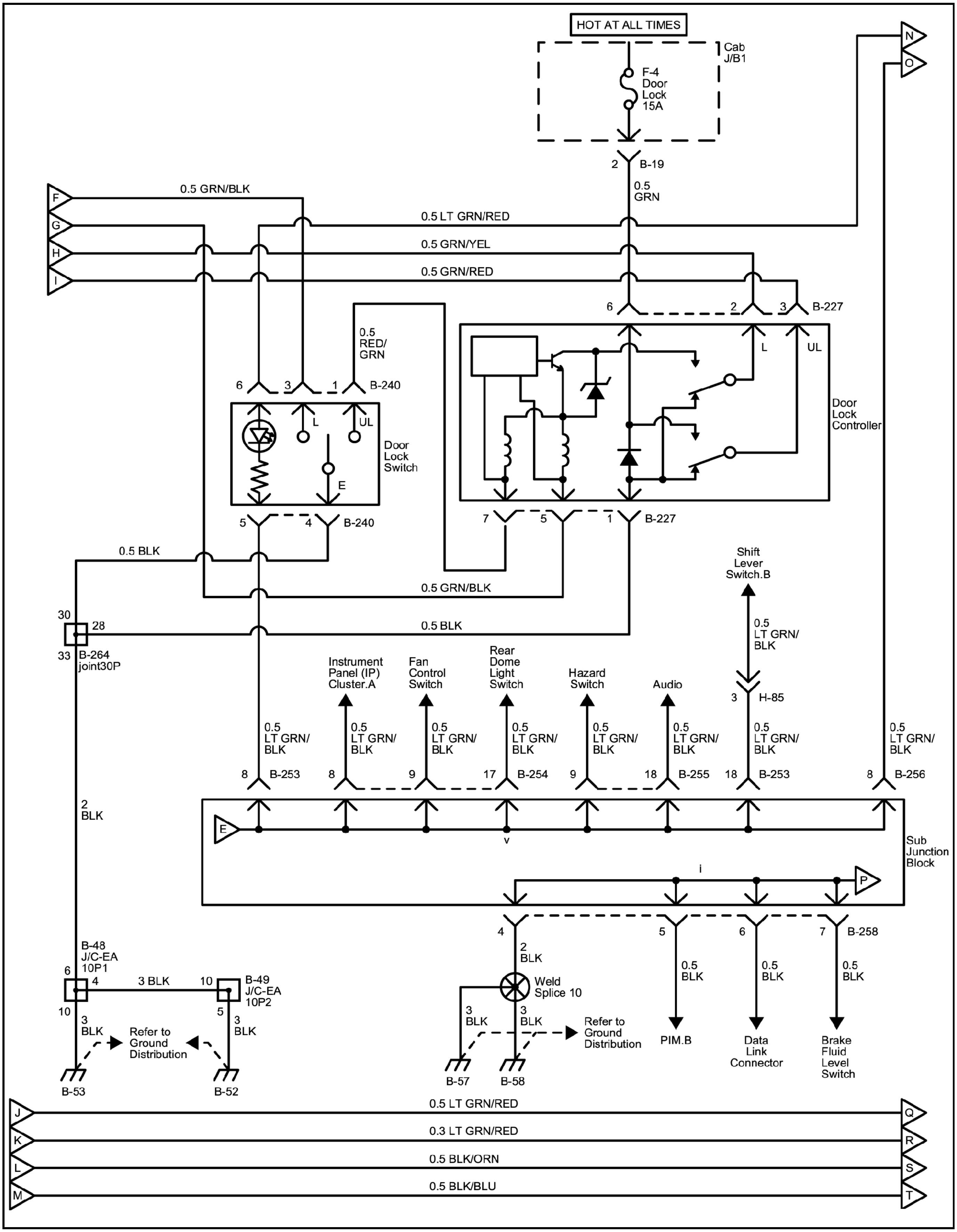
4557693


HOT WHEN HEATER & A/C SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-27 Tail Lamps 10A
F-28 Illuminations 10A
F-3 Room Lamp, Audio 10A
5 B-19
3 B-23
Instrument Panel (IP) Cluster.A
Combination Switch
PIM.B
7 B-22
0.5 BLK/ BLU
0.5 BLK/ BLU
A
B-264 J/C-30P
11
10
9
8
0.3 LT GRN/RED
B
0.5 GRN/ RED
0.5 LT GRN/ RED
0.3 BLU
0.5 LT GRN/ RED
0.5 BLK/ BLU
0.5 BLK/ BLU
2
6
8
B-224
4
8
B-239
0.5 RED
Miles Check Switch
Cruise Main Switch
Mirror Heater Switch
8 B-187
Rear Window Lock Switch
3
7
B-239
1
5
7
B-224
0.5 BLK/ BLU
0.5 BLK/ ORN
0.5 BLK
0.3 LT GRN/ BLK
C
D
7 B-187
B-264 J/C-30P
23
33
2 BLK
6
B-48 J/C-EA 10P1
10
0.5 LT GRN/ BLK
0.3 LT GRN/ BLK
0.5 LT GRN/ BLK
0.5 LT GRN/ BLK
7 B-254
18
9 B-256
7
9 B-253
7 B-256
u
v
E
Sub Junction Block
d
e
f
1
10 B-258
14
13 B-260
3
1 B-259
12 B-258
13 B-259
5
4 B-260
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
3 BLK
0.5 GRN/ RED
0.5 RED
0.5 RED
4 H-45
3 H-32
3 H-31
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
Refer to Ground Distribution
Front Position Light LH
J/C-7
Side Marker Light RH
Side Marker Light LH
Data Link Connector
Audio
B-53

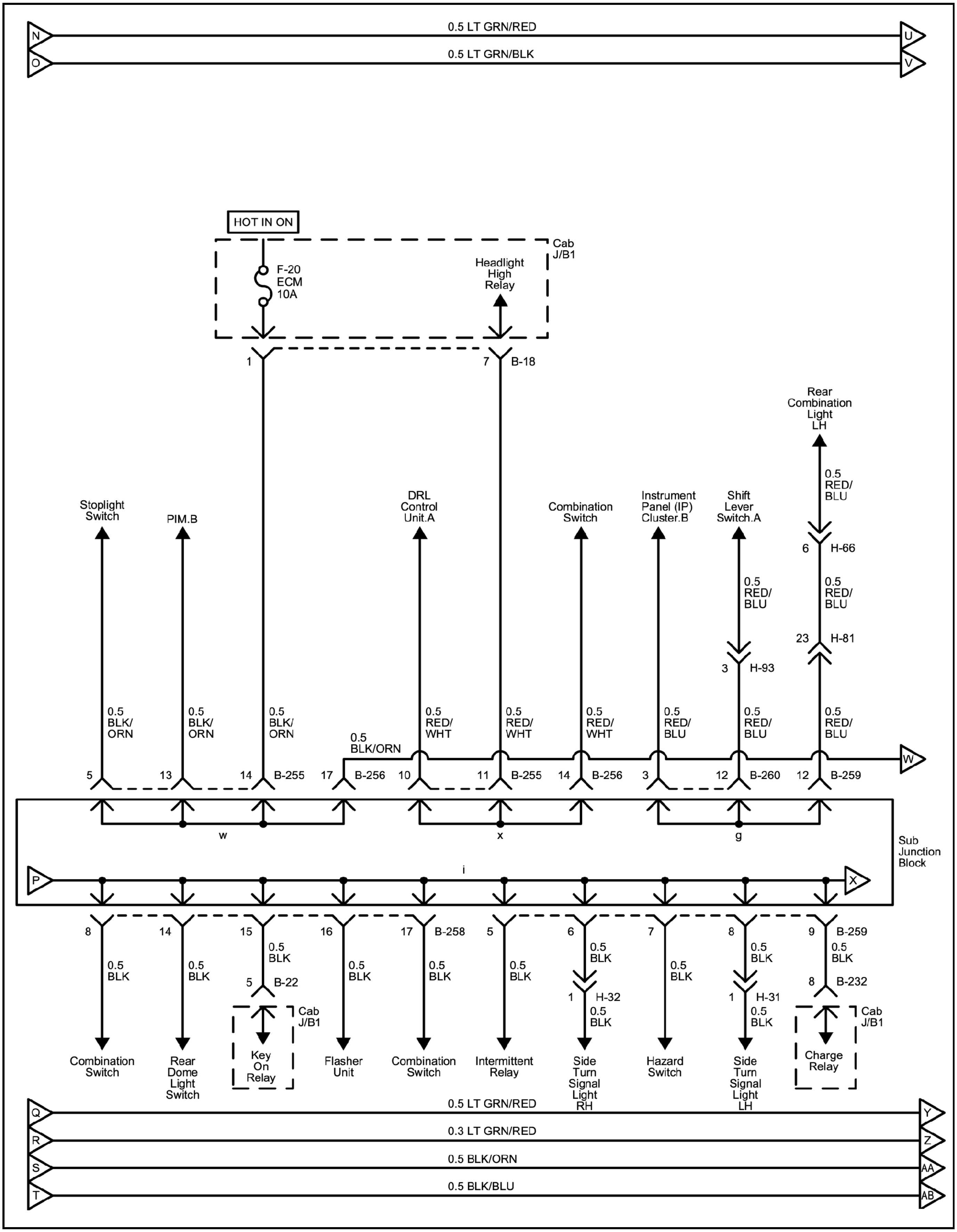
4557694


Cab
J/B1
6 B-17
0.5
GRN/
BLK
9 B-21
6 B-22
9 B-16
7 B-20
11
24 B-22
8 B-18
0.5 GRN/BLK
F
0.5 GRN/BLK
G
0.5 GRN/YEL
H
0.5 GRN/RED
I
A
B
C
D
Sub
Junction
Block
z
y
11
5
0.5
GRN/
RED
6
0.5
GRN/
RED
2
0.5
GRN/
RED
16
15
0.5
GRN/
RED
14 B-253
0.5
GRN/
RED
0.5 GRN/YEL
0.5
GRN/
YEL
0.5
GRN/
YEL
0.5
GRN/
YEL
7
8 H-114
(C-Cab)
1
13
5 H-92
2
7 H-87
5
6 H-86
0.5
GRN/
BLK
0.5
GRN/
YEL
0.5
GRN/
RED
0.5
GRN/
RED
0.5
GRN/
YEL
0.5
GRN/
RED
0.5
GRN/
YEL
0.5
GRN/
RED
0.5
GRN/
YEL
6
5 H-51
6
5 H-49
0.5
GRN/
RED
0.5
GRN/
YEL
0.5
GRN/
RED
0.5
GRN/
YEL
4
2
3 D-5
2
1 D-7
2
1 D-24
2
1 D-23
M
L
UL
Front
Door
Lock
Motor
LH
M
UL
L
Front
Door
Lock
Motor
RH
M
UL
L
Rear
Door
Lock
Motor
RH
M
UL
L
Rear
Door
Lock
Motor
LH
5 D-5
0.5 BLK
H-92
10
0.5 BLK
14
12
B-264
J/C-30P
2 BLK
9
5
3 BLK
B-49
J/C-EA
10P2
10
3
BLK
4
3 BLK
10
B-48
J/C-EA
10P1
B-53
B-52
Refer to
Ground
Distribution
0.5 LT GRN/RED
J
0.3 LT GRN/RED
K
0.5 BLK/ORN
L
0.5 BLK/BLU
M

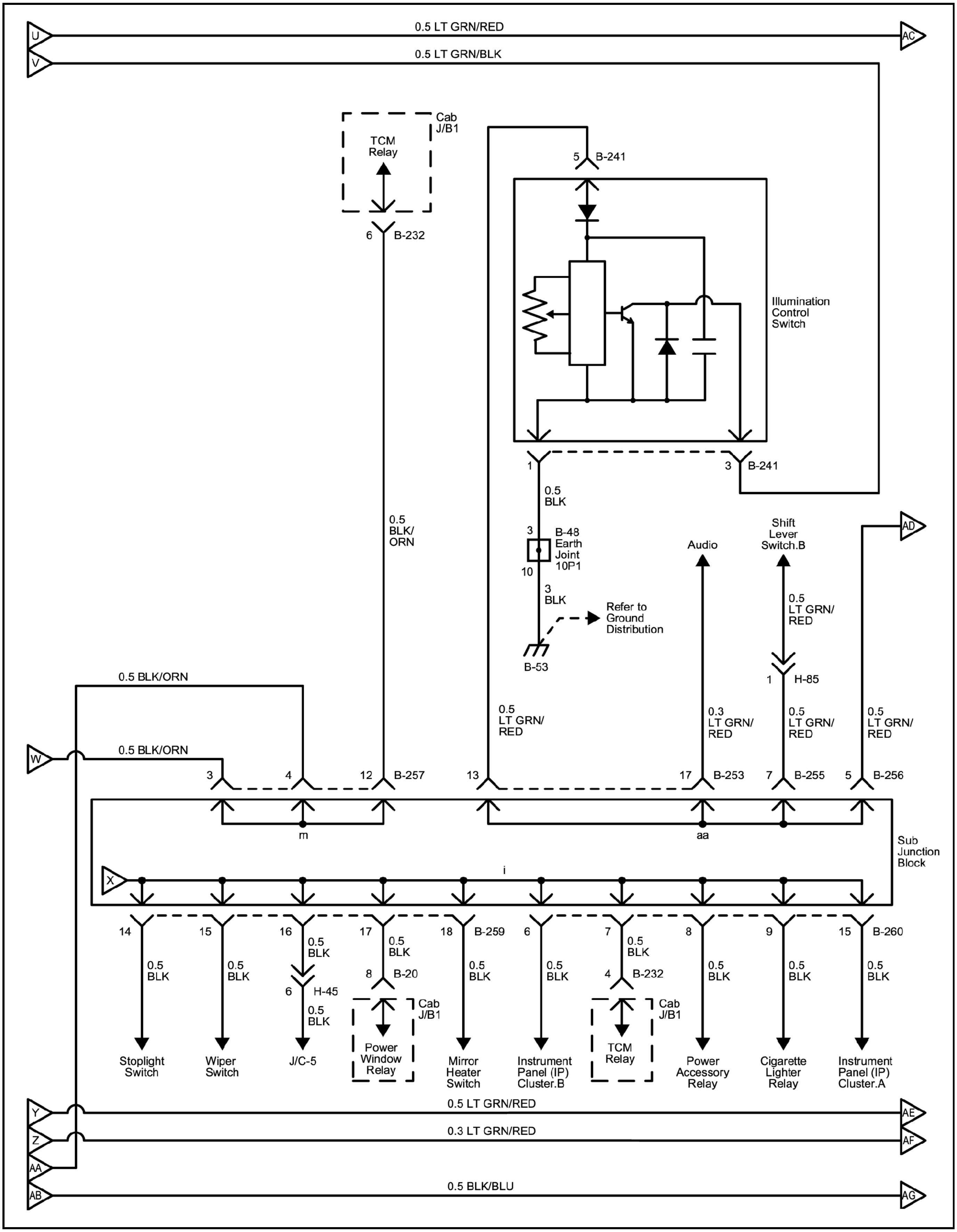
4557696


HOT AT ALL TIMES
Cab J/B1
F-4 Door Lock 15A
2 B-19
0.5 GRN
N
O
F
G
H
I
0.5 GRN/BLK
0.5 LT GRN/RED
0.5 GRN/YEL
0.5 GRN/RED
6 2 3 B-227
L UL
Door Lock Controller
0.5 RED/ GRN
6 3 1 B-240
L UL
Door Lock Switch
E
5 4 B-240
7 5 1 B-227
0.5 BLK
0.5 GRN/BLK
0.5 BLK
30 28
33 B-264 joint30P
Shift Lever Switch.B
0.5 LT GRN/ BLK
3 H-85
Instrument Panel (IP) Cluster.A
Fan Control Switch
Rear Dome Light Switch
Hazard Switch
Audio
0.5 LT GRN/ BLK
8 B-253
8 9 17 B-254
9 18 B-255
18 B-253
8 B-256
2 BLK
E
v
Sub Junction Block
i
P
4 5 6 7 B-258
2 BLK
Weld Splice 10
3 BLK
3 BLK
Refer to Ground Distribution
B-57 B-58
0.5 BLK
PIM.B
Data Link Connector
Brake Fluid Level Switch
B-48 J/C-EA 10P1
6 4
3 BLK
10 B-49 J/C-EA 10P2
10 5
3 BLK
Refer to Ground Distribution
3 BLK
B-53 B-52
J K L M
Q R S T
0.5 LT GRN/RED
0.3 LT GRN/RED
0.5 BLK/ORN
0.5 BLK/BLU

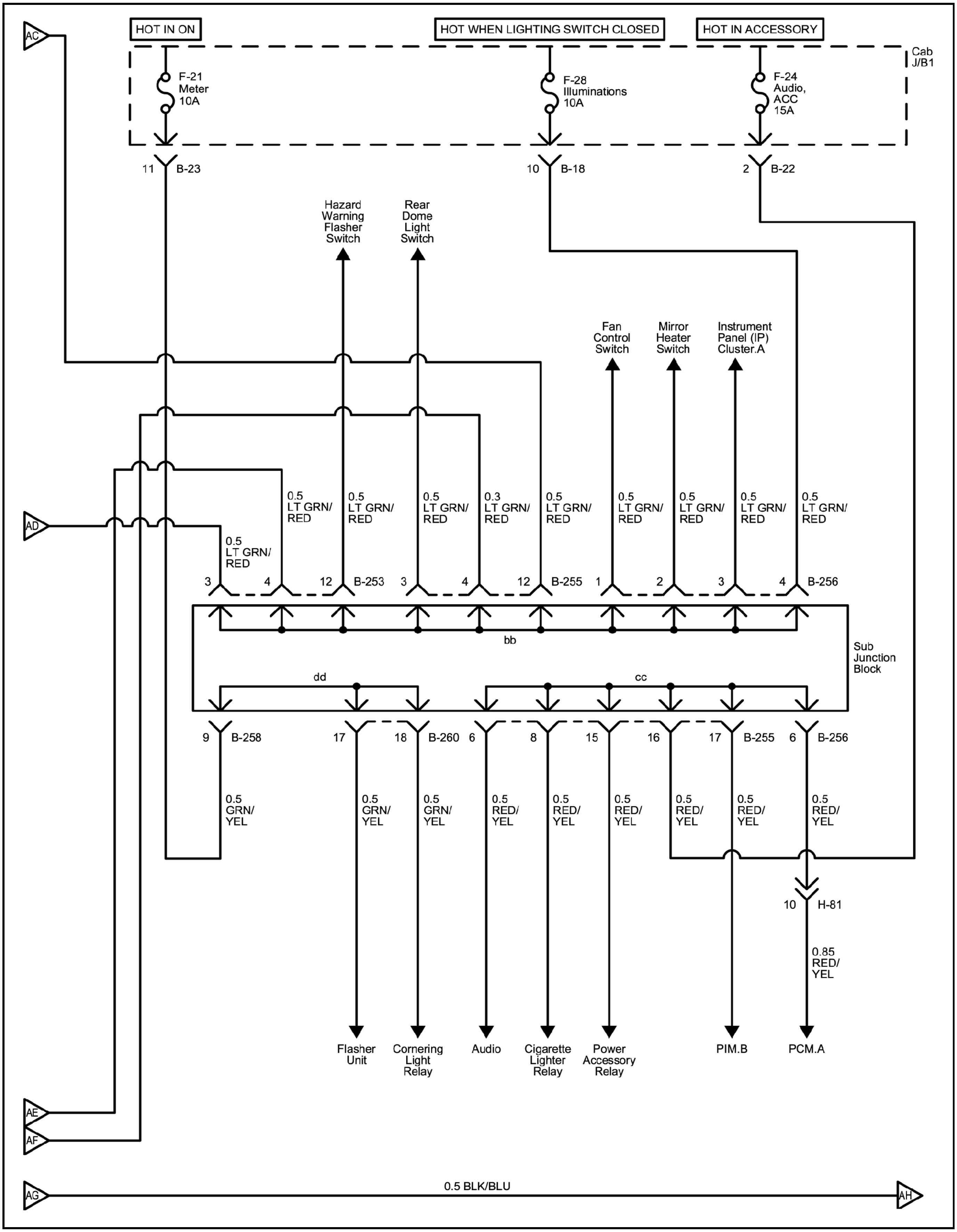
4557697


N
O
0.5 LT GRN/RED
0.5 LT GRN/BLK
U
V
HOT IN ON
Cab J/B1
F-20 ECM 10A
Headlight High Relay
1
7
B-18
Rear Combination Light LH
0.5 RED/ BLU
6
H-66
Stoplight Switch
PIM.B
DRL Control Unit.A
Combination Switch
Instrument Panel (IP) Cluster.B
Shift Lever Switch.A
0.5 RED/ BLU
0.5 RED/ BLU
23
H-81
3
H-93
0.5 BLK/ ORN
0.5 BLK/ ORN
0.5 BLK/ ORN
0.5 BLK/ORN
0.5 RED/ WHT
0.5 RED/ WHT
0.5 RED/ WHT
0.5 RED/ BLU
0.5 RED/ BLU
0.5 RED/ BLU
W
5
13
14
B-255
17
B-256
10
11
B-255
14
B-256
3
12
B-260
12
B-259
w
x
g
Sub Junction Block
P
i
X
8
14
15
16
17
B-258
5
6
7
8
9
B-259
0.5 BLK
0.5 BLK
0.5 BLK
5
B-22
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
8
B-232
1
H-32
0.5 BLK
1
H-31
0.5 BLK
Cab J/B1
Cab J/B1
Combination Switch
Rear Dome Light Switch
Key On Relay
Flasher Unit
Combination Switch
Intermittent Relay
Side Turn Signal Light RH
Hazard Switch
Side Turn Signal Light LH
Charge Relay
Q
R
S
T
0.5 LT GRN/RED
0.3 LT GRN/RED
0.5 BLK/ORN
0.5 BLK/BLU
Y
Z
AA
AB

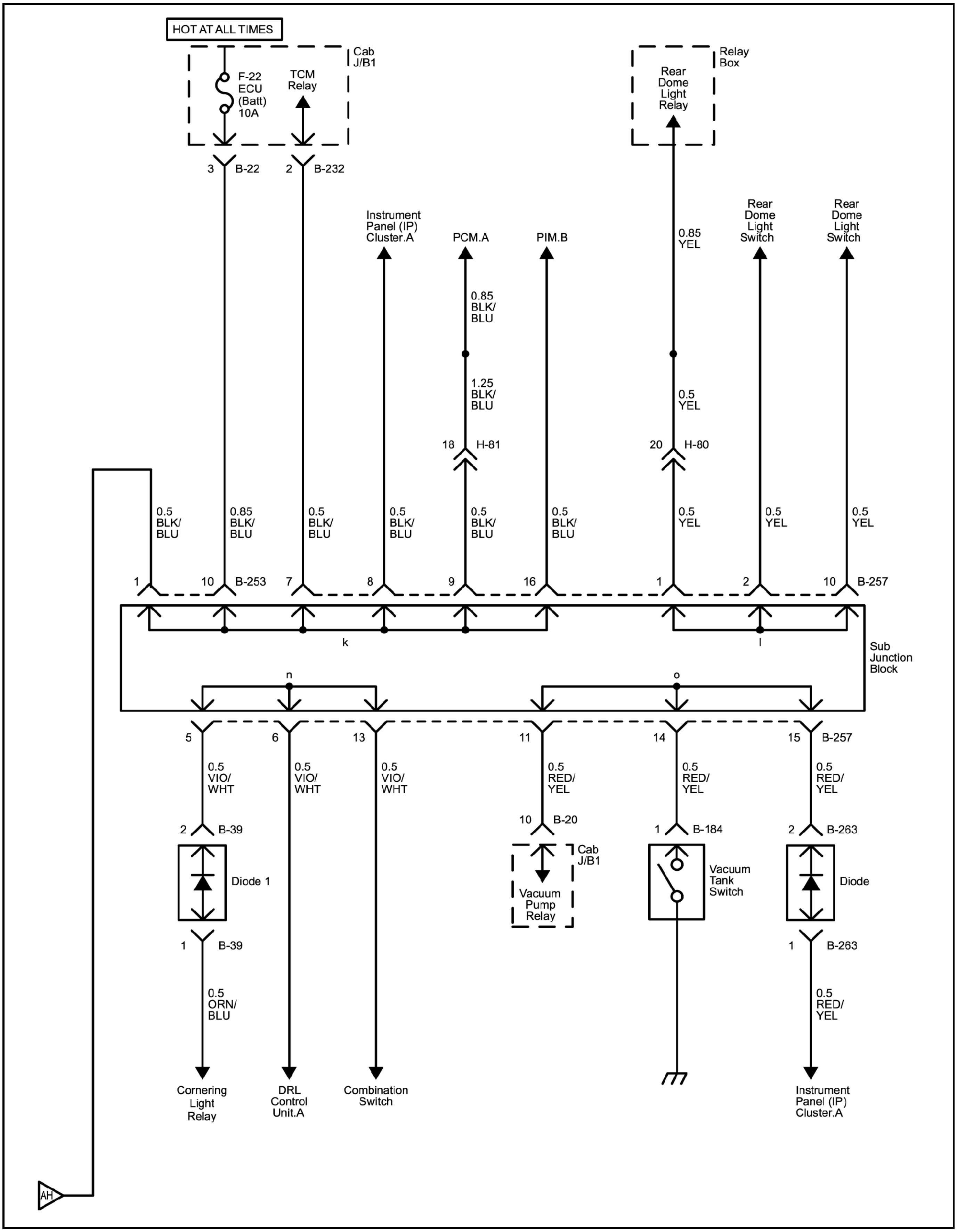
4557699


U
V
0.5 LT GRN/RED
0.5 LT GRN/BLK
AC
Cab
J/B1
TCM
Relay
6
B-232
0.5
BLK/
ORN
5
B-241
Illumination
Control
Switch
1
3
B-241
0.5
BLK
3
B-48
Earth
Joint
10P1
10
3
BLK
Refer to
Ground
Distribution
B-53
Audio
Shift
Lever
Switch.B
AD
0.5
LT GRN/
RED
1
H-85
0.5 BLK/ORN
W
0.5 BLK/ORN
0.5
LT GRN/
RED
0.3
LT GRN/
RED
0.5
LT GRN/
RED
0.5
LT GRN/
RED
3
4
12
B-257
13
17
B-253
7
B-255
5
B-256
m
aa
Sub
Junction
Block
X
i
14
15
16
17
18
B-259
6
7
8
9
15
B-260
0.5
BLK
0.5
BLK
0.5
BLK
0.5
BLK
8
B-20
0.5
BLK
0.5
BLK
0.5
BLK
4
B-232
0.5
BLK
0.5
BLK
0.5
BLK
6
H-45
0.5
BLK
Cab
J/B1
Cab
J/B1
Stoplight
Switch
Wiper
Switch
J/C-5
Power
Window
Relay
Mirror
Heater
Switch
Instrument
Panel (IP)
Cluster.B
TCM
Relay
Power
Accessory
Relay
Cigarette
Lighter
Relay
Instrument
Panel (IP)
Cluster.A
Y
0.5 LT GRN/RED
AE
Z
0.3 LT GRN/RED
AF
AA
AB
0.5 BLK/BLU
AG

4557700

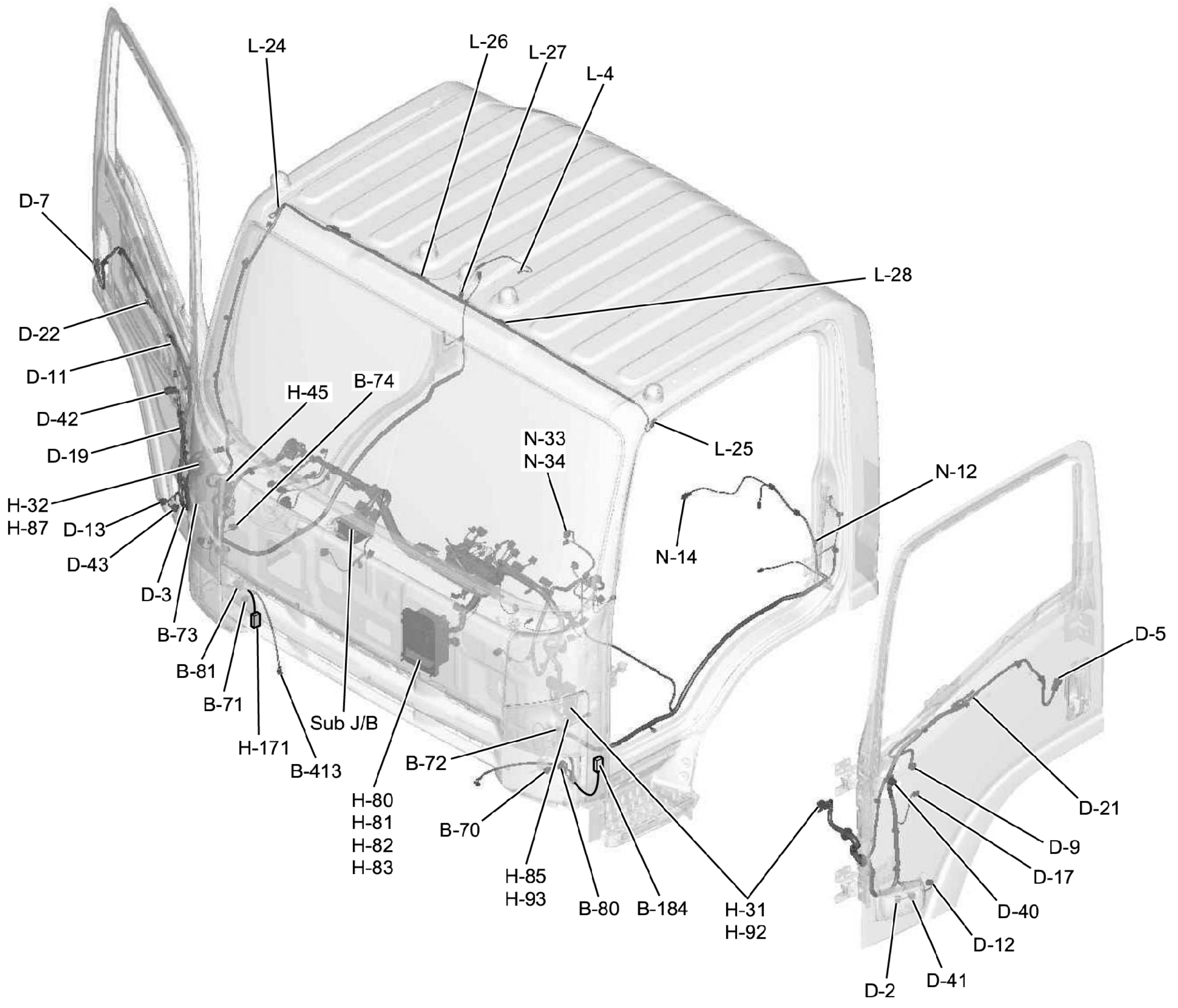

HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ACCESSORY
Cab J/B1
F-21 Meter 10A
F-28 Illuminations 10A
F-24 Audio, ACC 15A
11 B-23
10 B-18
2 B-22
Hazard Warning Flasher Switch
Rear Dome Light Switch
Fan Control Switch
Mirror Heater Switch
Instrument Panel (IP) Cluster.A
AC
AD
AE
AF
AG
AH
0.5 LT GRN/ RED
0.3 LT GRN/ RED
3 4 12 B-253
3 4 12 B-255
1 2 3 4 B-256
bb
dd
cc
Sub Junction Block
9 B-258
17 18 B-260
6 8 15 16 17 B-255
6 B-256
0.5 GRN/ YEL
0.5 RED/ YEL
10 H-81
0.85 RED/ YEL
Flasher Unit
Cornering Light Relay
Audio
Cigarette Lighter Relay
Power Accessory Relay
PIM.B
PCM.A
0.5 BLK/BLU

4557702


HOT AT ALL TIMES
Cab J/B1
F-22 ECU (Batt) 10A
TCM Relay
Relay Box
Rear Dome Light Relay
3 B-22
2 B-232
Instrument Panel (IP) Cluster.A
PCM.A
PIM.B
0.85 YEL
Rear Dome Light Switch
Rear Dome Light Switch
0.85 BLK/ BLU
1.25 BLK/ BLU
0.5 YEL
18 H-81
20 H-80
0.5 BLK/ BLU
0.85 BLK/ BLU
0.5 BLK/ BLU
0.5 BLK/ BLU
0.5 BLK/ BLU
0.5 BLK/ BLU
0.5 YEL
0.5 YEL
0.5 YEL
1
10 B-253
7
8
9
16
1
2
10 B-257
k
l
Sub Junction Block
n
o
5
6
13
11
14
15 B-257
0.5 VIO/ WHT
0.5 VIO/ WHT
0.5 VIO/ WHT
0.5 RED/ YEL
0.5 RED/ YEL
0.5 RED/ YEL
2 B-39
10 B-20
1 B-184
2 B-263
Diode 1
Cab J/B1
Vacuum Pump Relay
Vacuum Tank Switch
Diode
1 B-39
1 B-263
0.5 ORN/ BLU
0.5 RED/ YEL
Cornering Light Relay
DRL Control Unit.A
Combination Switch
Instrument Panel (IP) Cluster.A
AH

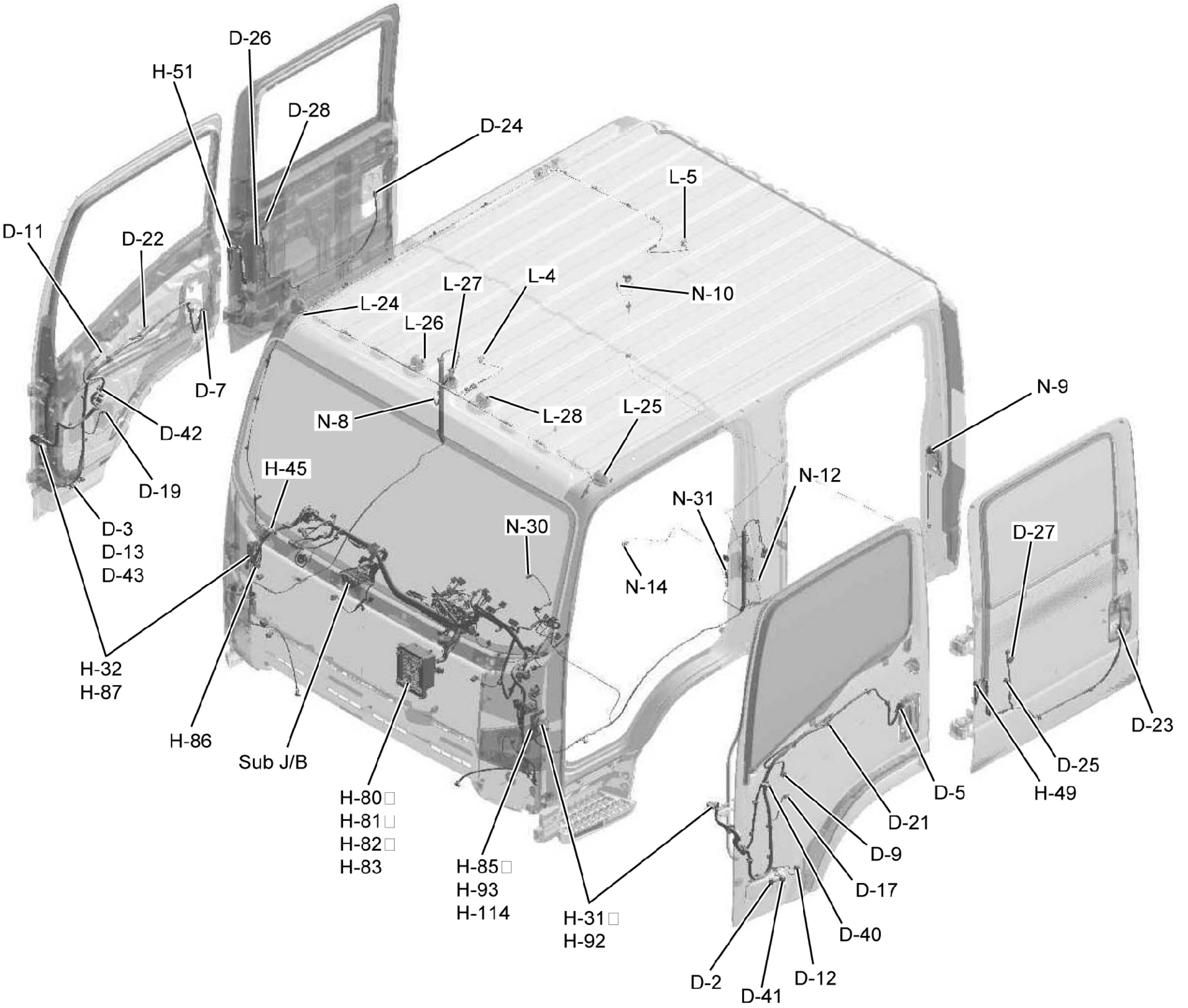
4557703

Harness Routing Views (Cab Harness (S-CAB) Routing)


L-24
L-26
L-27
L-4
D-7
L-28
D-22
D-11
D-42
H-45
B-74
D-19
N-33
N-34
L-25
N-12
H-32
H-87
D-13
D-43
N-14
D-3
B-73
D-5
B-81
B-71
Sub J/B
H-171
B-413
B-72
H-80
H-81
H-82
H-83
B-70
D-21
D-9
D-17
H-85
H-93
B-80
B-184
H-31
H-92
D-40
D-12
D-2
D-41

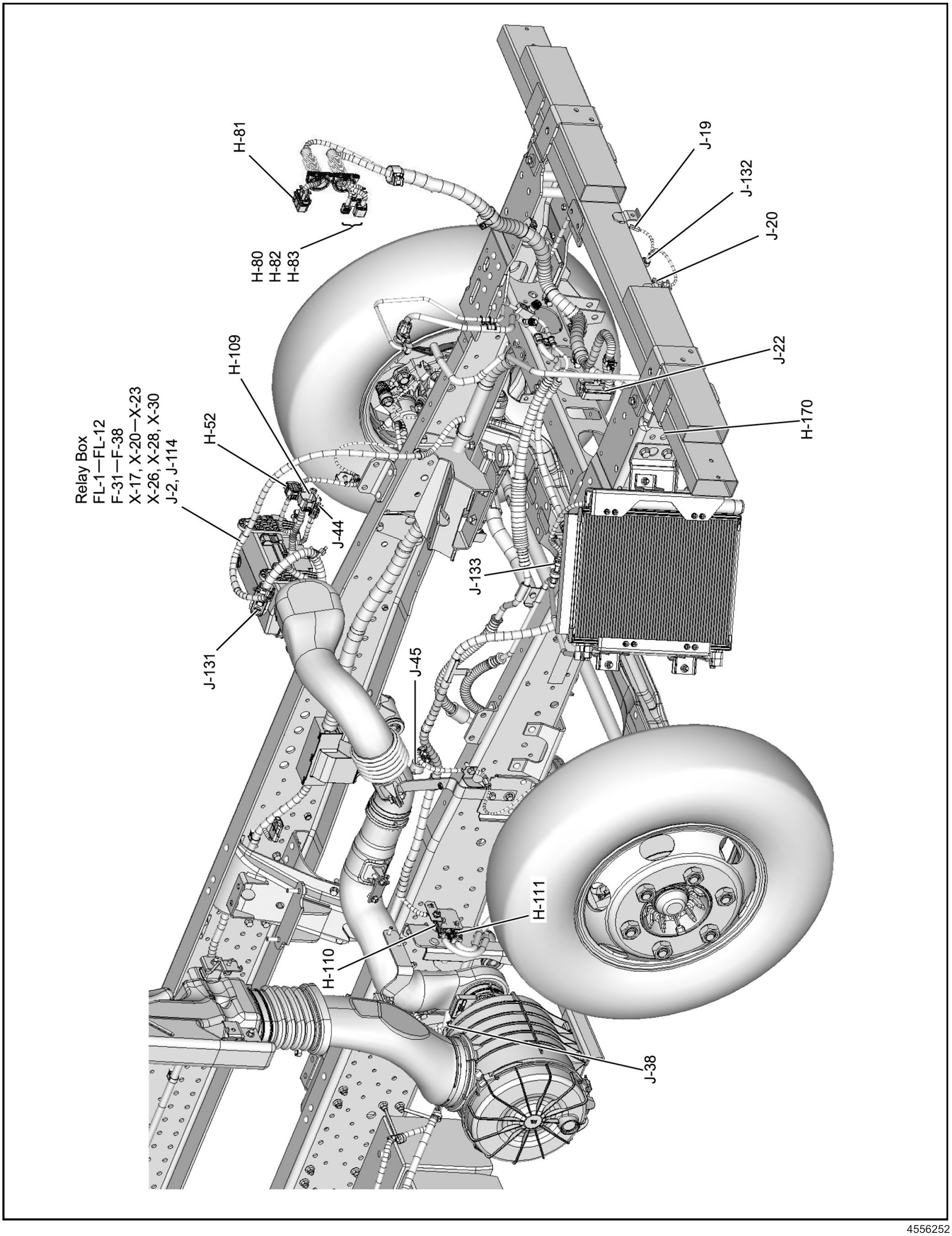
4556248

Harness Routing Views (Cab Harness (C-CAB) Routing)


D-26
H-51
D-28
D-24
L-5
D-11
D-22
L-27
L-4
N-10
L-24
L-26
D-7
N-8
L-28
L-25
N-9
D-42
H-45
N-12
D-19
N-31
D-3
D-13
D-43
N-30
D-27
N-14
H-32
H-87
D-23
H-86
Sub J/B
D-25
D-5
H-49
H-80□
H-81□
H-82□
H-83
D-21
D-9
H-85□
H-93
H-114
D-17
H-31□
H-92
D-40
D-2
D-41
D-12

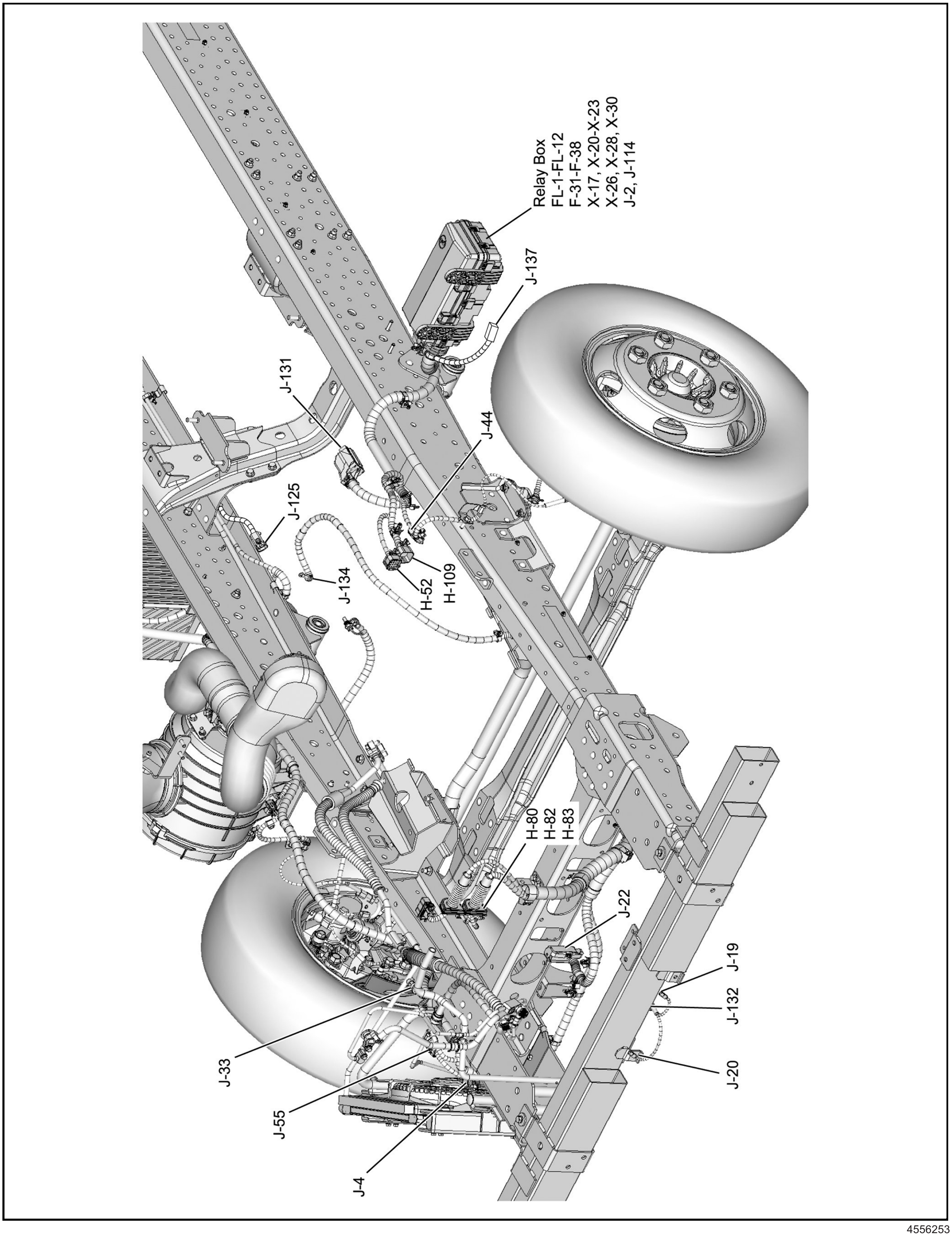
4556250

Harness Routing Views (Frame Harness Routing (1 of 6))


H-81
H-80
H-82
H-83
J-19
J-132
J-20
J-22
H-170
H-109
H-52
Relay Box
FL-1—FL-12
F-31—F-38
X-17, X-20—X-23
X-26, X-28, X-30
J-2, J-114
J-44
J-133
J-131
J-45
H-111
H-110
J-38

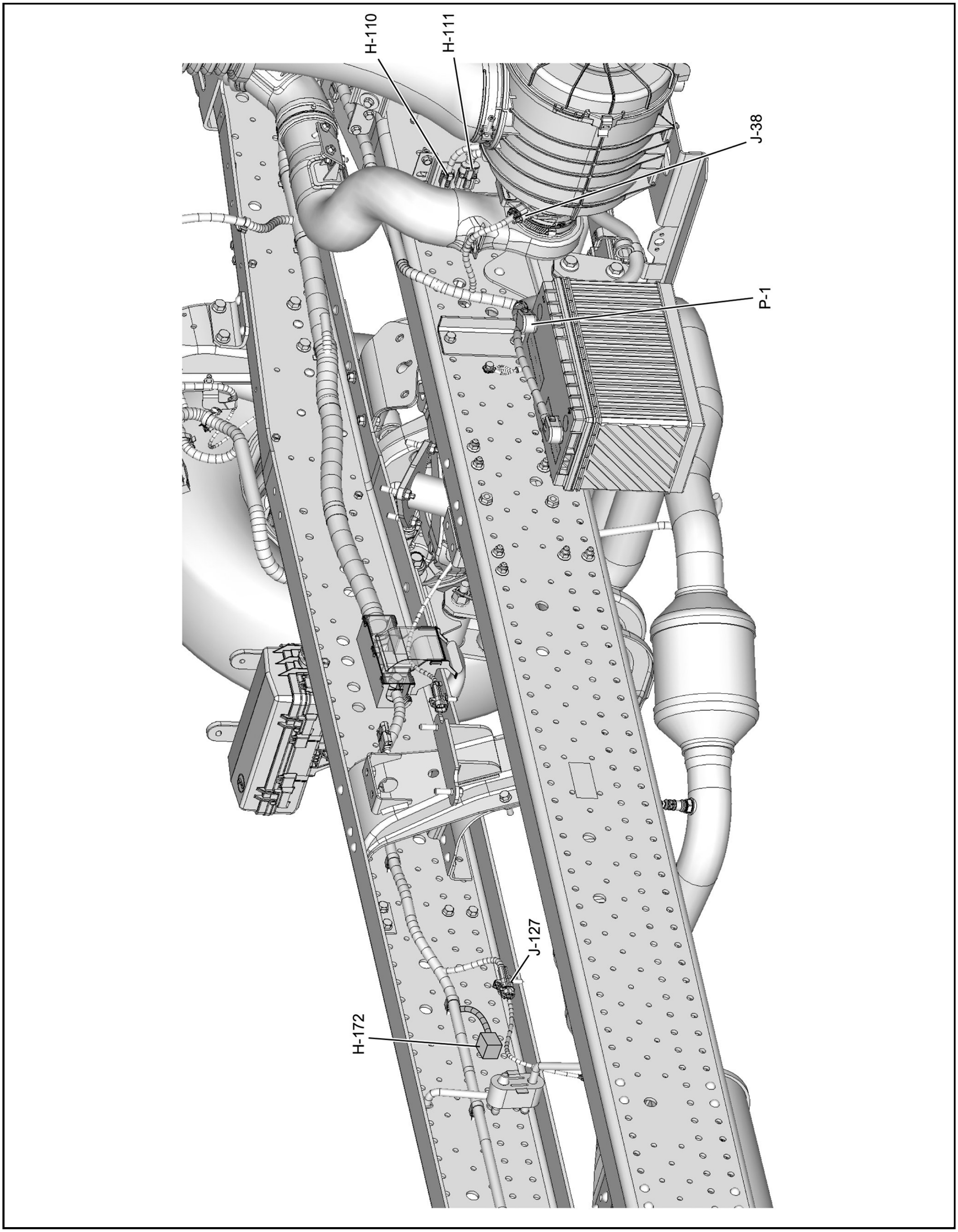
4556252

Harness Routing Views (Frame Harness Routing (2 of 6))

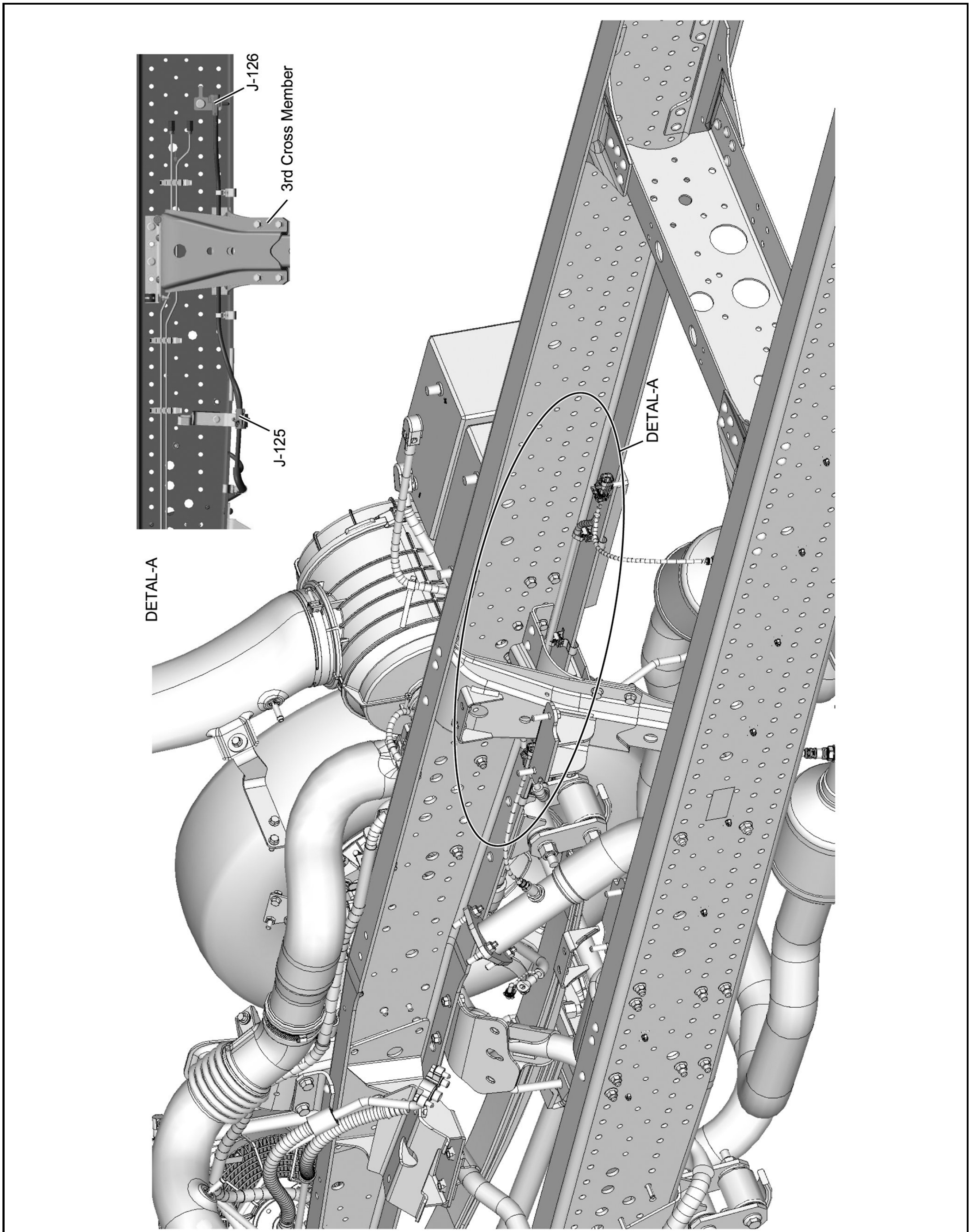

Relay Box
FL-1-FL-12
F-31-F-38
X-17, X-20-X-23
X-26, X-28, X-30
J-2, J-114
J-137
J-131
J-44
J-125
J-134
H-52
H-109
H-80
H-82
H-83
J-22
J-19
J-132
J-20
J-33
J-55
J-4

4556253

Harness Routing Views (Frame Harness Routing (3 of 6))

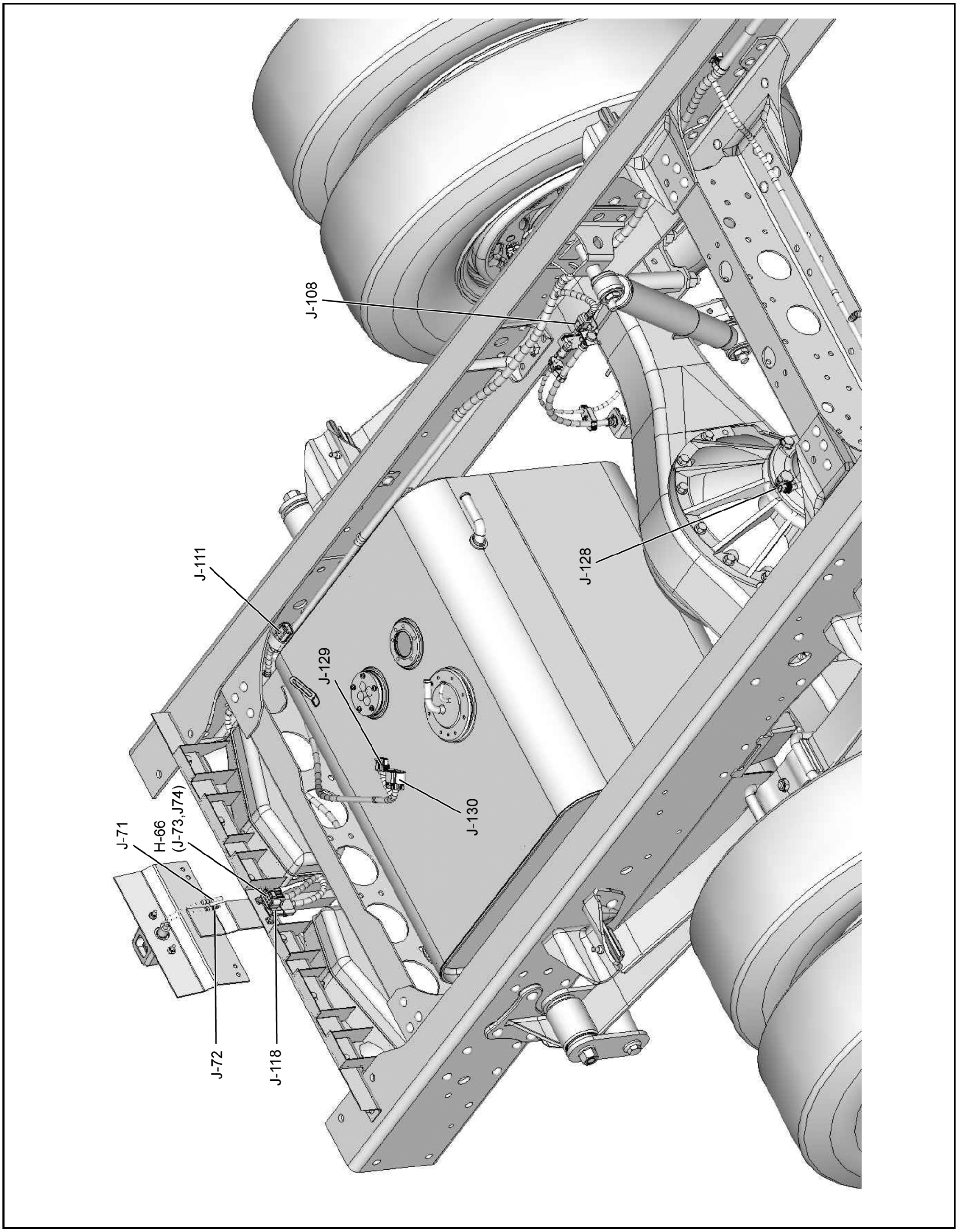

H-110
H-111
J-38
P-1
J-127
H-172
4556256

Harness Routing Views (Frame Harness Routing (4 of 6))


J-126
3rd Cross Member
J-125
DETAL-A
DETAL-A

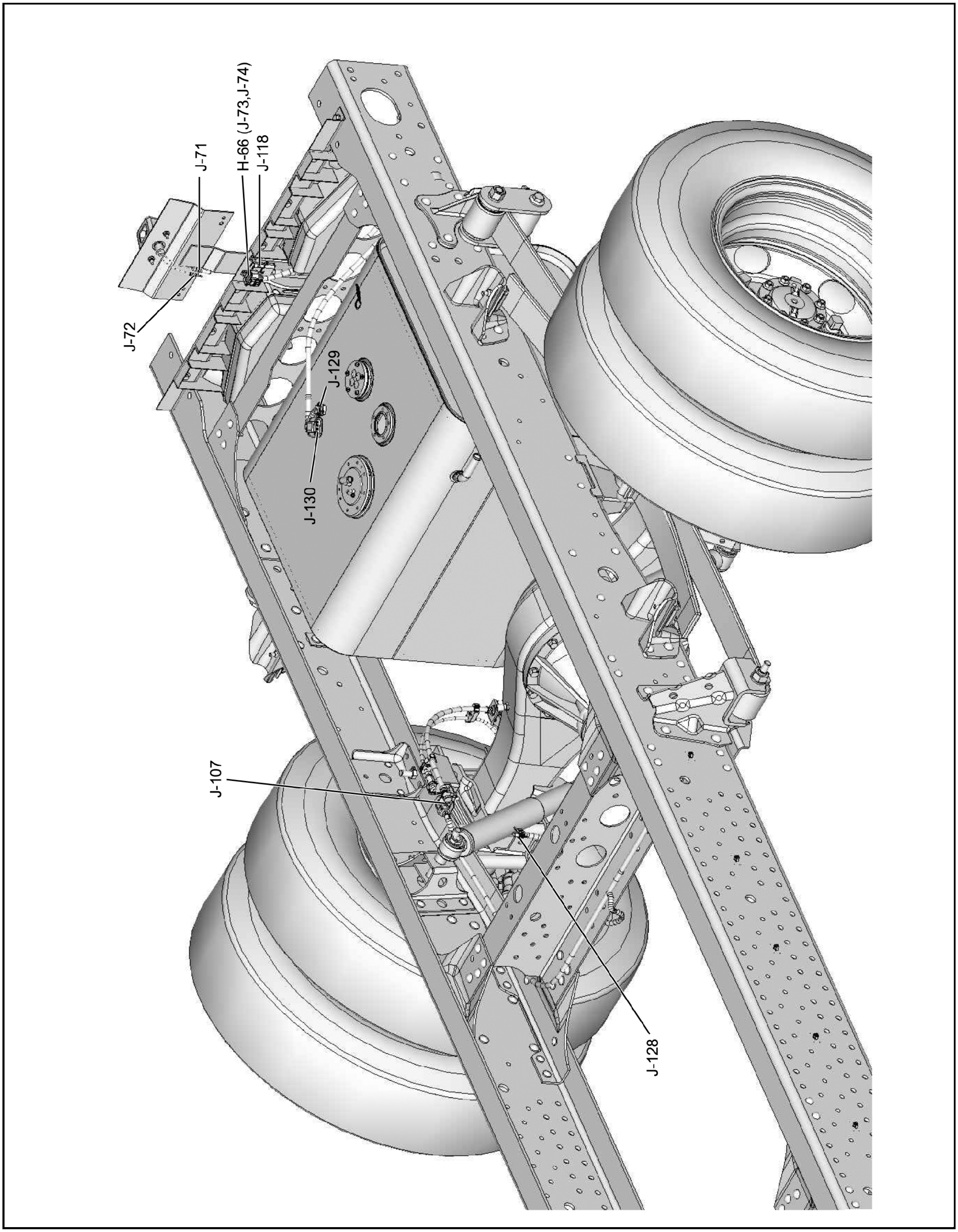
4556260

Harness Routing Views (Frame Harness Routing (5 of 6))


J-108
J-111
J-128
J-129
J-130
J-71
H-66
(J-73,J74)
J-72
J-118

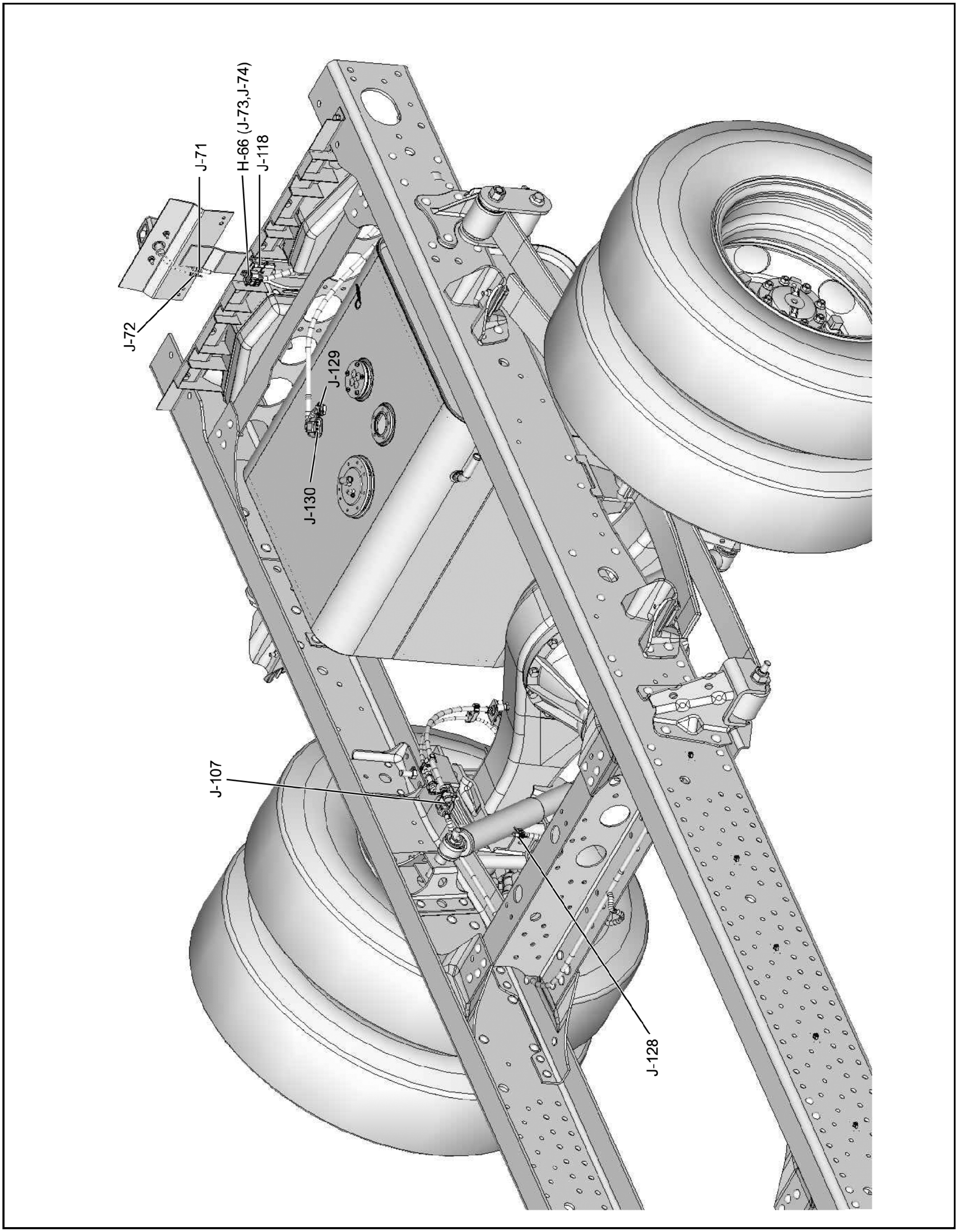
4556268

Harness Routing Views (Frame Harness Routing (6 of 6))


J-71
H-66 (J-73,J-74)
J-118
J-72
J-129
J-130
J-107
J-128

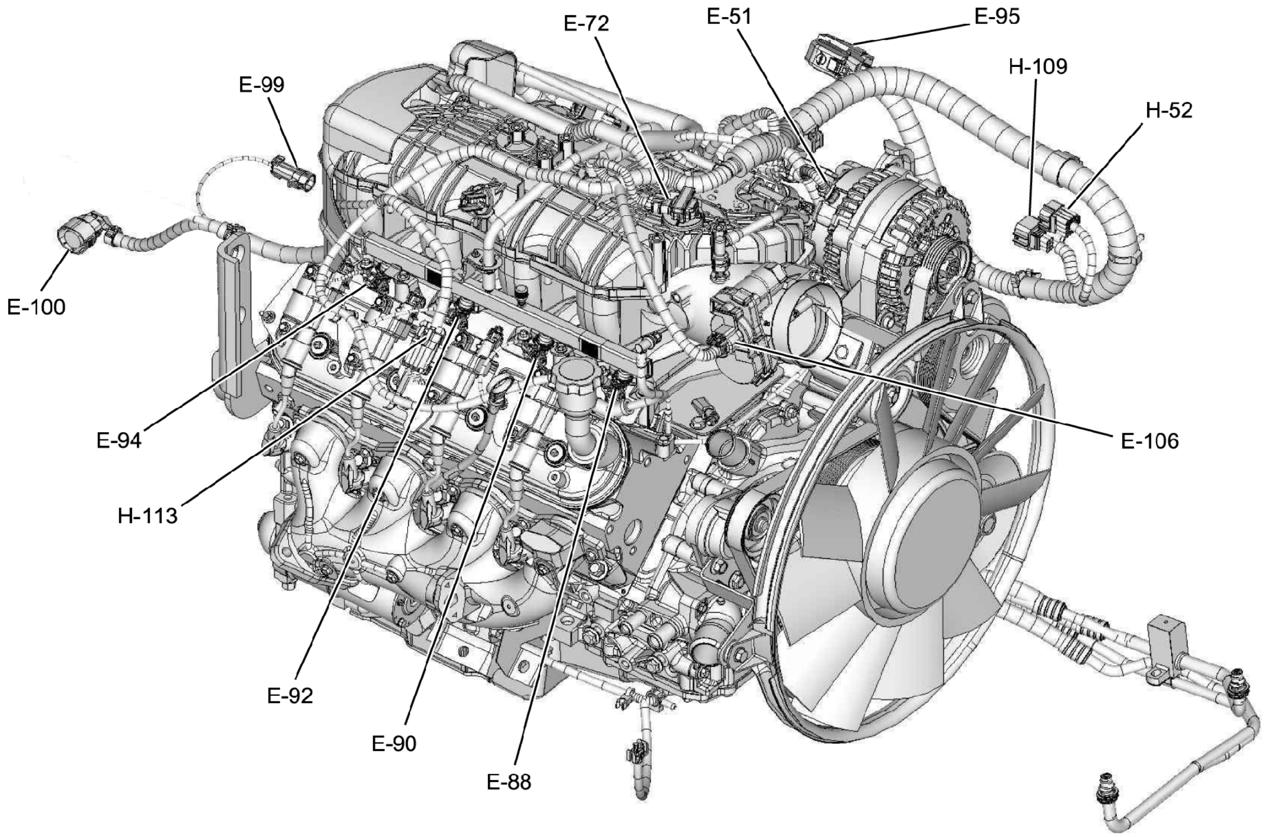
4556273

Harness Routing Views (Engine Harness Routing (1 of 4))


J-71
H-66 (J-73,J-74)
J-118
J-72
J-129
J-130
J-107
J-128

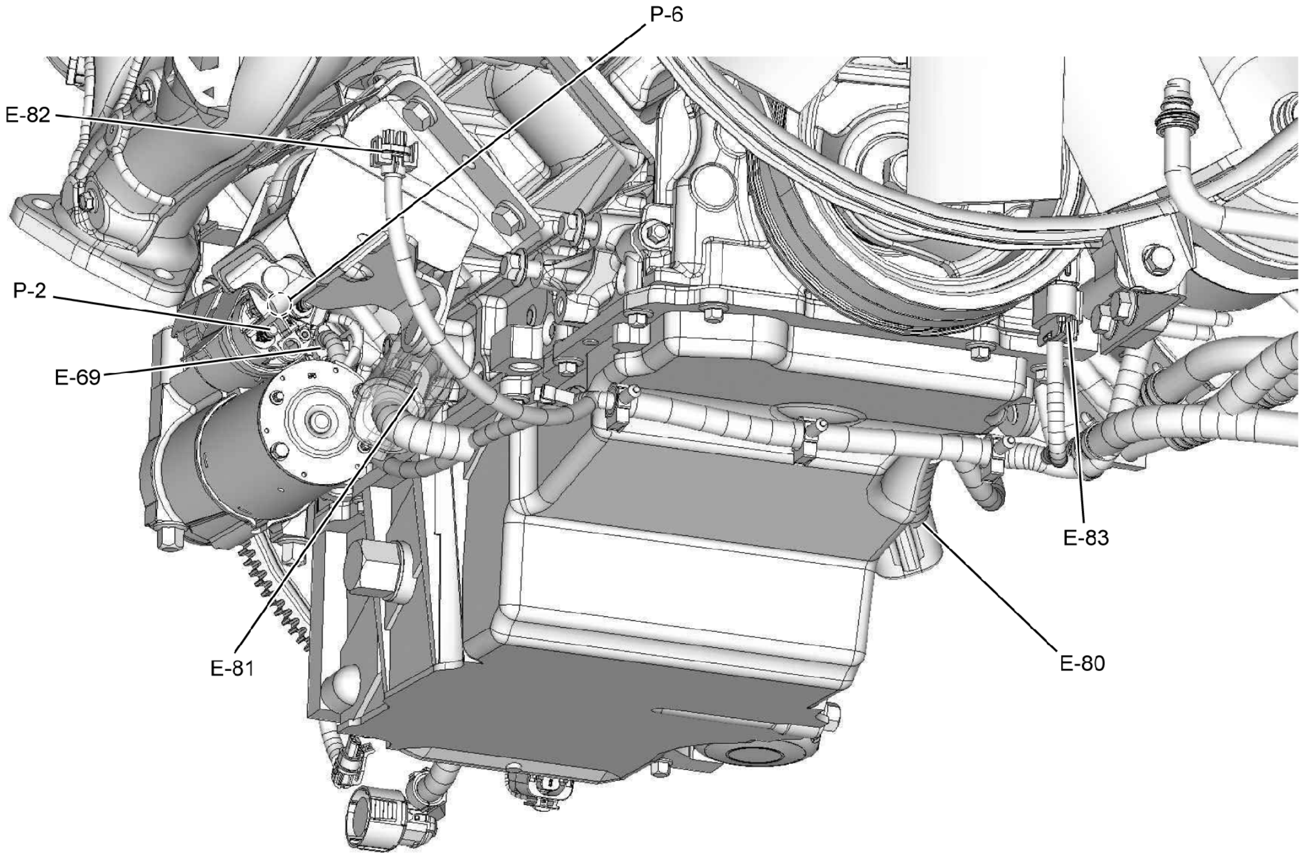
4556280

Harness Routing Views (Engine Harness Routing (2 of 4))


E-72
E-51
E-95
E-99
H-109
H-52
E-100
E-94
E-106
H-113
E-92
E-90
E-88

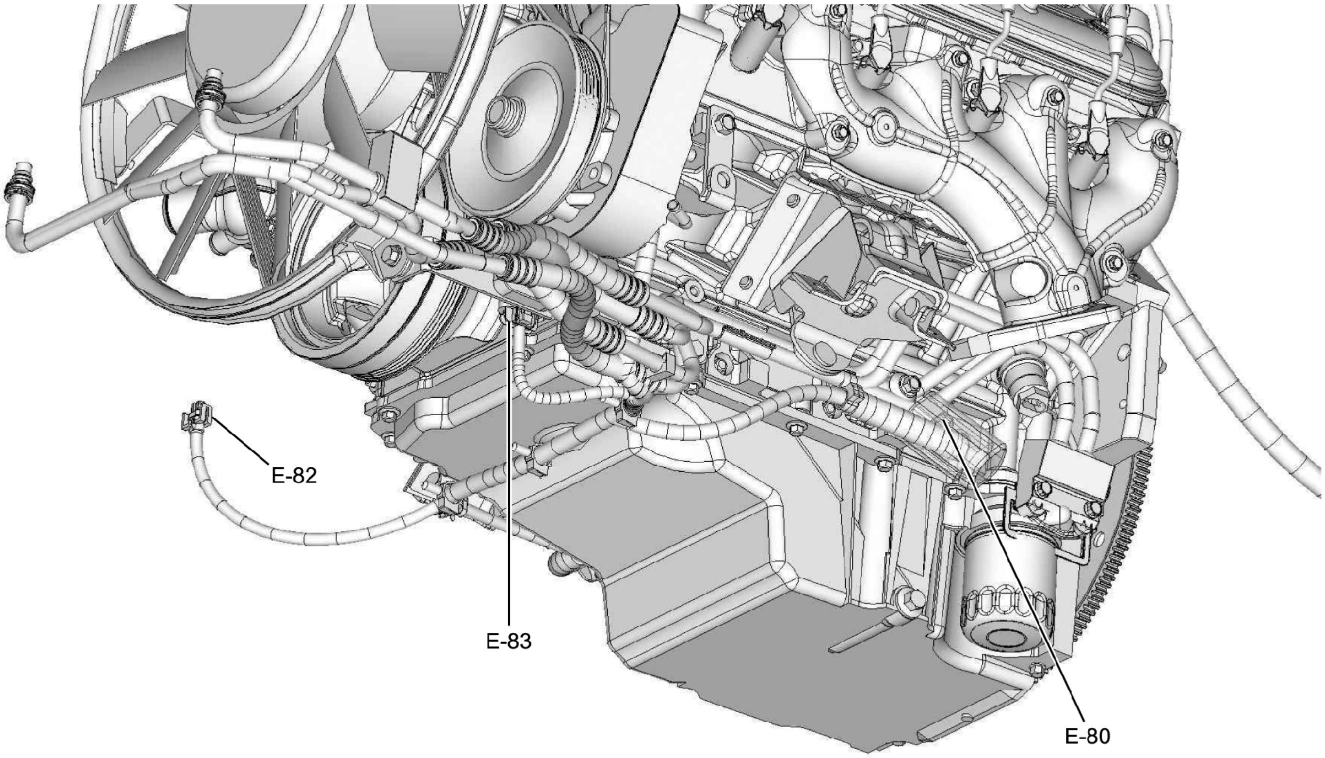
4556286

Harness Routing Views (Engine Harness Routing (3 of 4))


P-6
E-82
P-2
E-69
E-83
E-80
E-81

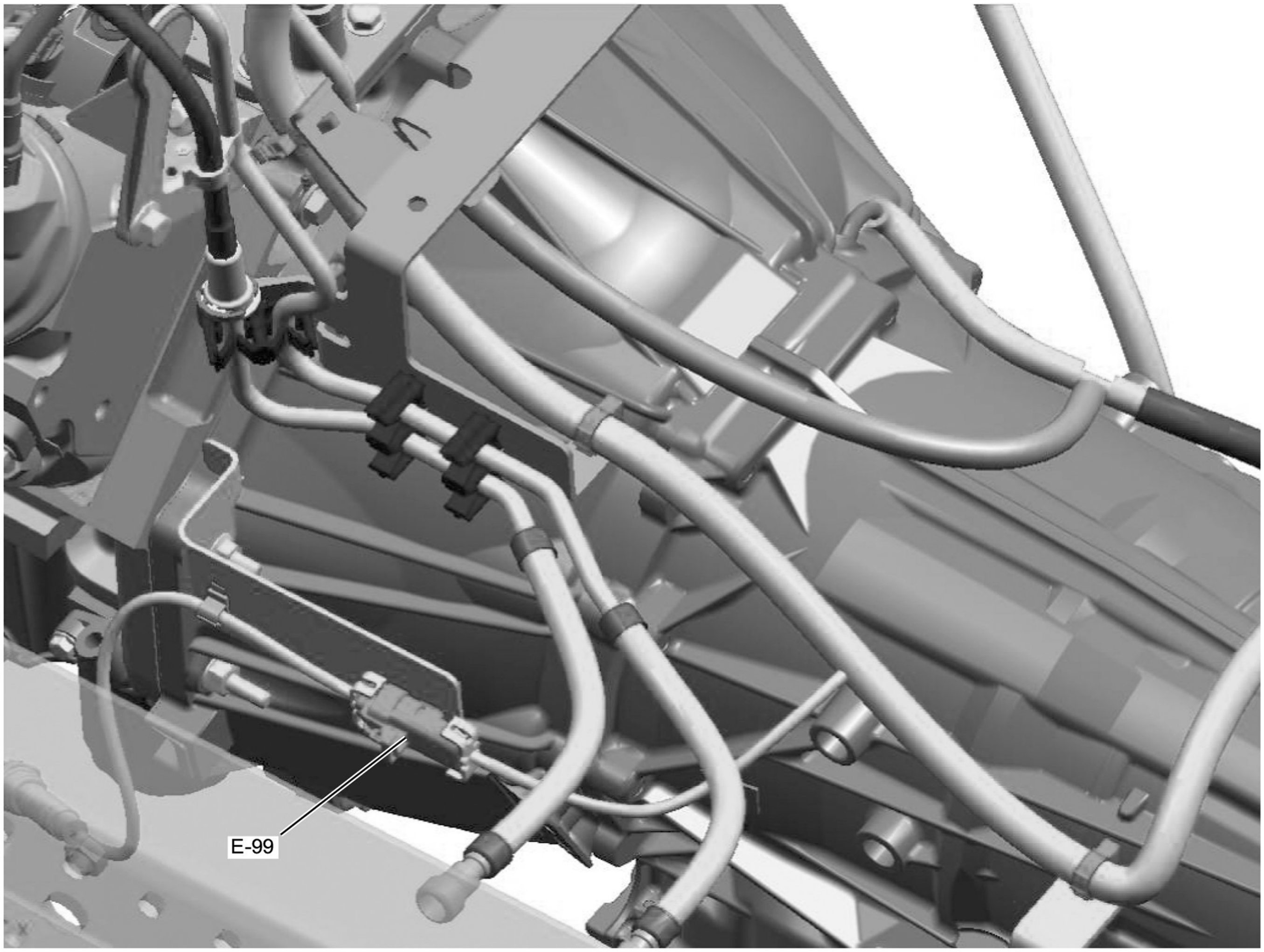
4556290

Harness Routing Views (Engine Harness Routing (4 of 4))



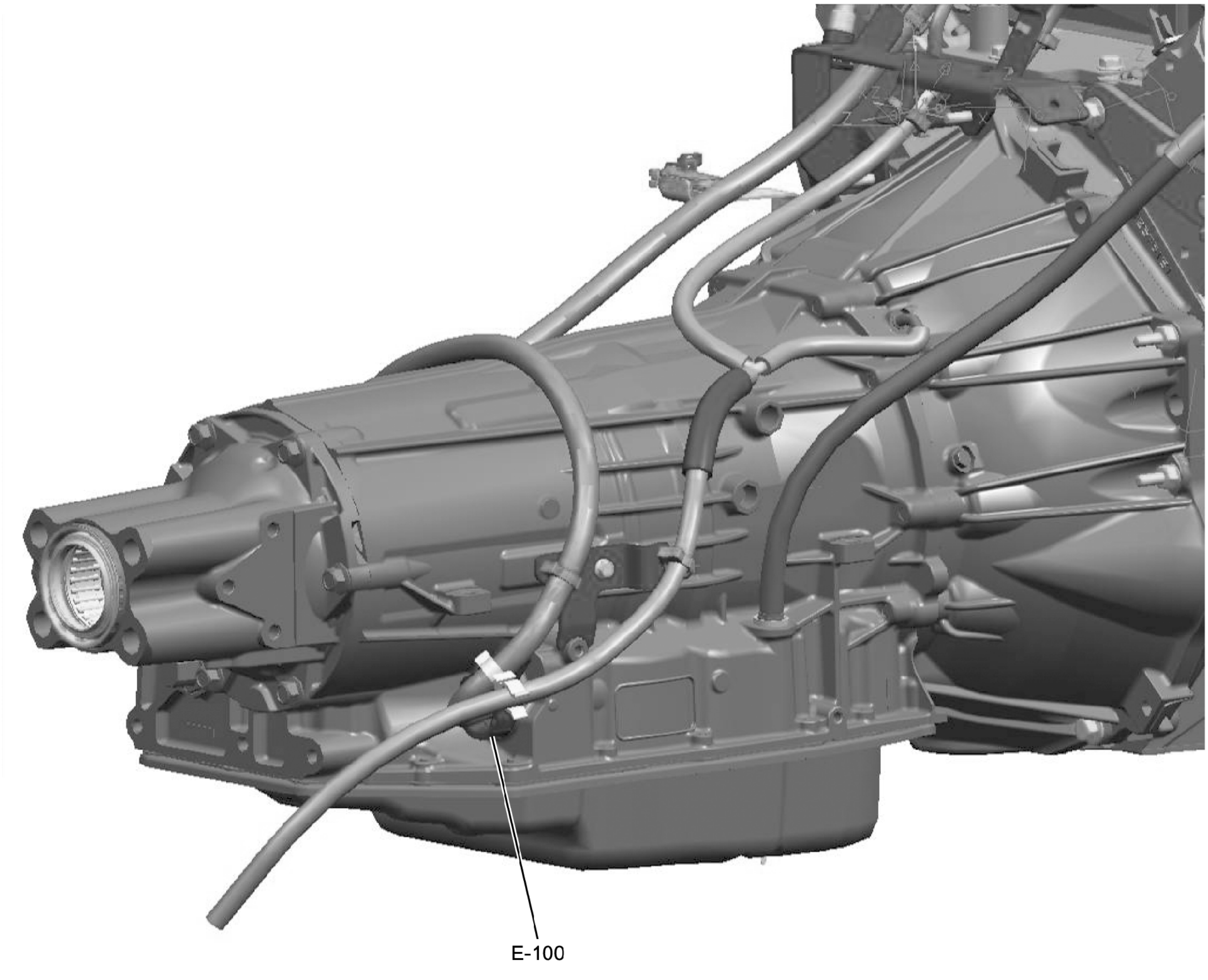
4556295

Harness Routing Views (Mission Harness Routing (1 of 2))



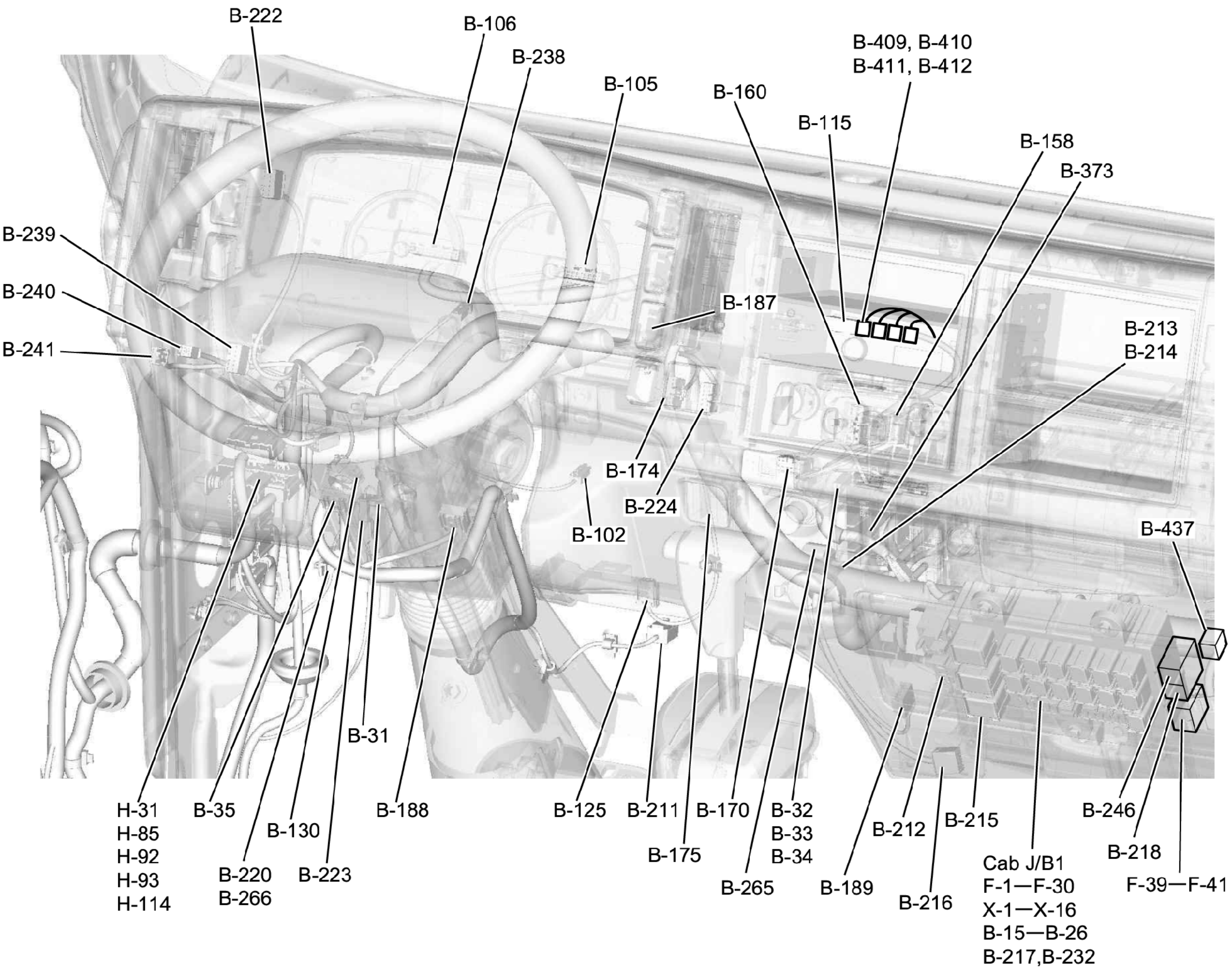
4556303

Harness Routing Views (Mission Harness Routing (2 of 2))



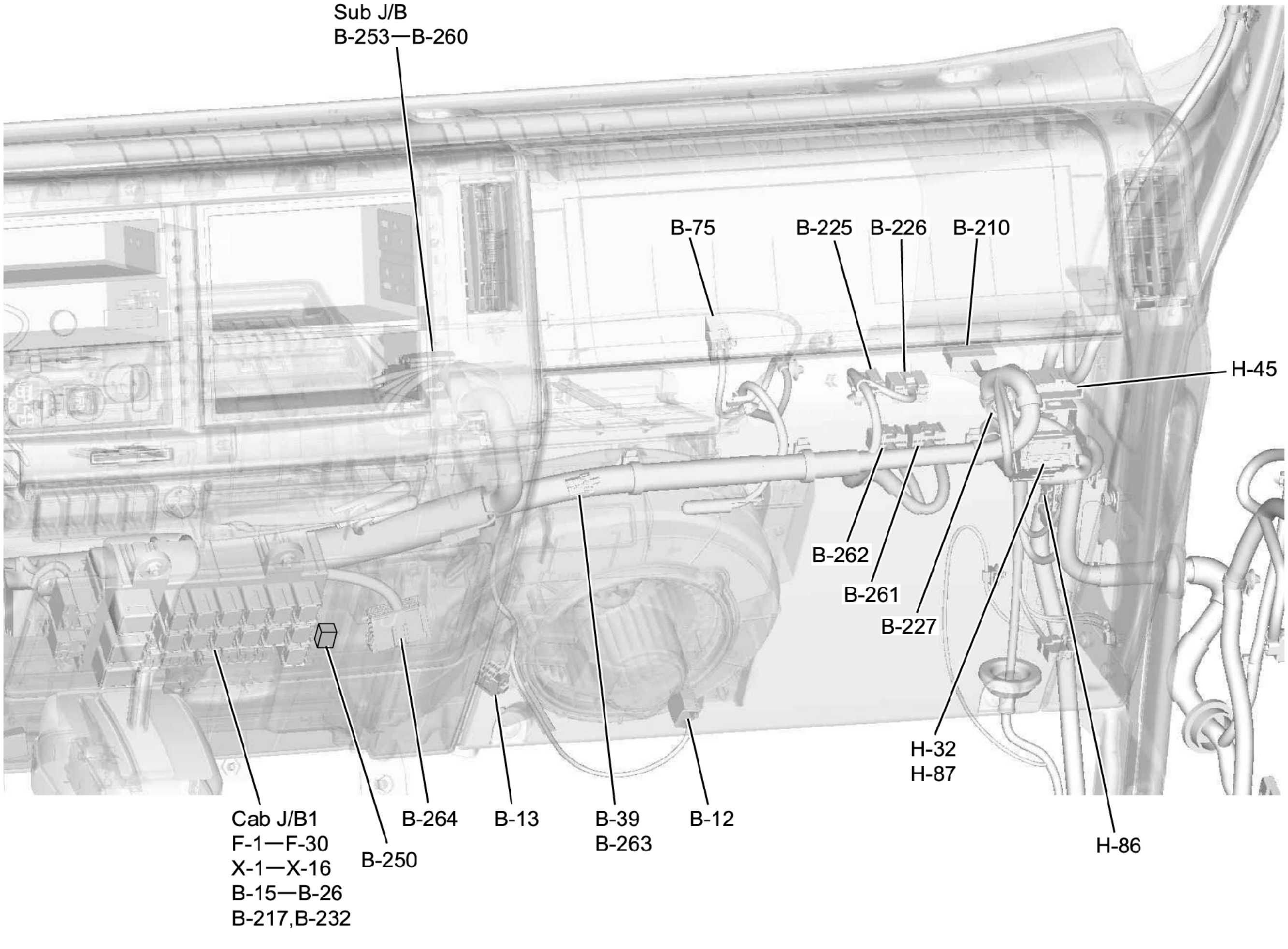
4556311

Harness Routing Views (Instrument Panel Harness Routing (1 of 2))


B-222
B-106
B-238
B-105
B-160
B-409, B-410
B-411, B-412
B-115
B-158
B-373
B-239
B-240
B-241
B-187
B-213
B-214
B-174
B-224
B-102
B-437
B-31
H-31
H-85
H-92
H-93
H-114
B-35
B-130
B-220
B-266
B-223
B-188
B-125
B-211
B-175
B-170
B-32
B-33
B-34
B-265
B-189
B-212
B-216
B-215
Cab J/B1
F-1—F-30
X-1—X-16
B-15—B-26
B-217,B-232
B-246
B-218
F-39—F-41

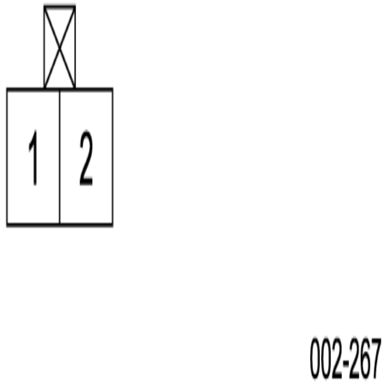
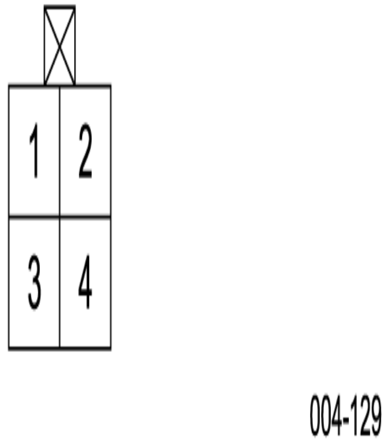
4556316

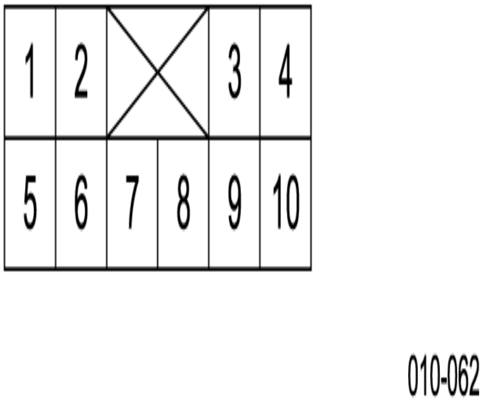
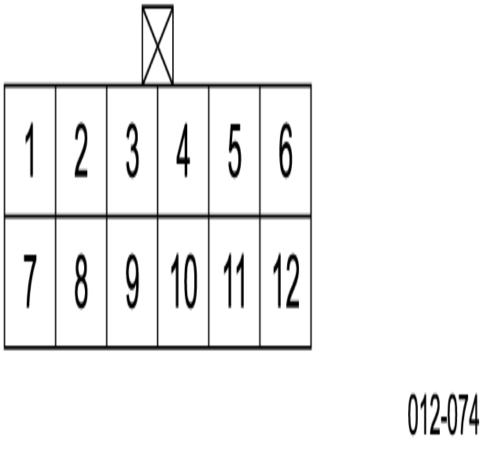
Harness Routing Views (Instrument Panel Harness Routing (2 of 2))

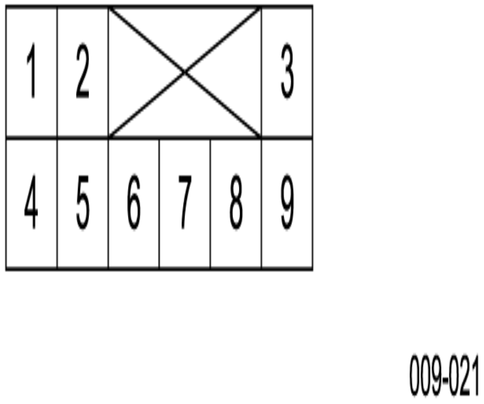
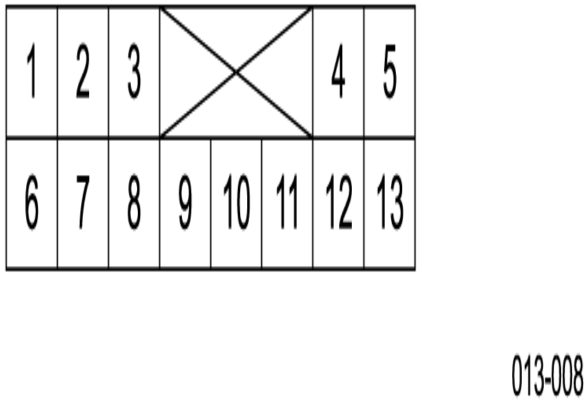

Sub J/B
B-253—B-260
B-75
B-225
B-226
B-210
H-45
B-262
B-261
B-227
H-32
H-87
Cab J/B1
F-1—F-30
X-1—X-16
B-15—B-26
B-217,B-232
B-250
B-264
B-13
B-39
B-263
B-12
H-86
4556321

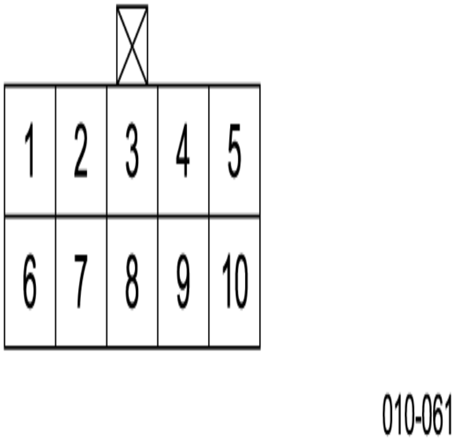
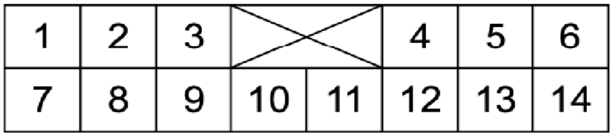
Visual Identification

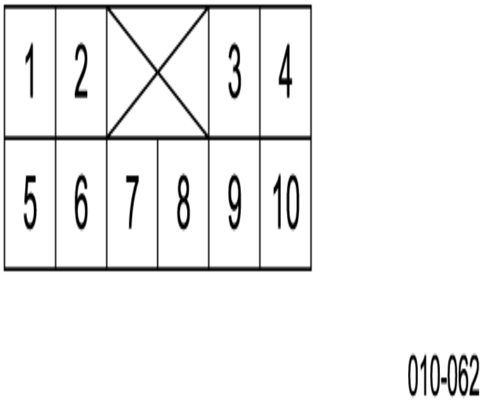
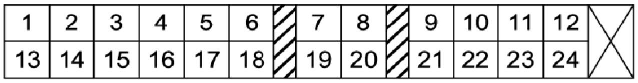
Connector List

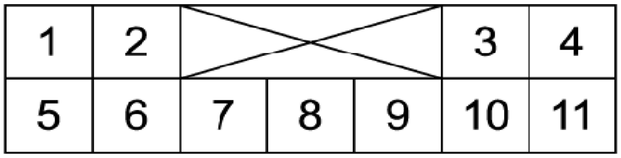
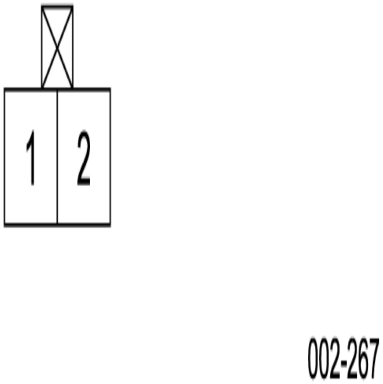
No.	Connector Face
B-12 White	 4557710 Blower Motor
B-13 White	 4557711 Blower Resistor

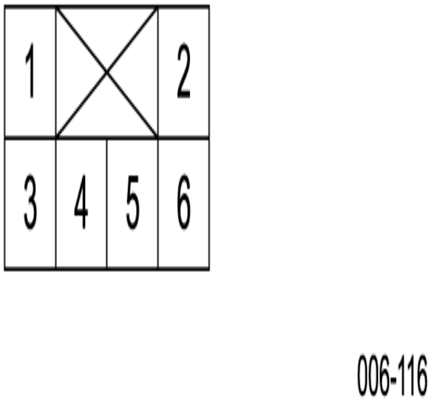
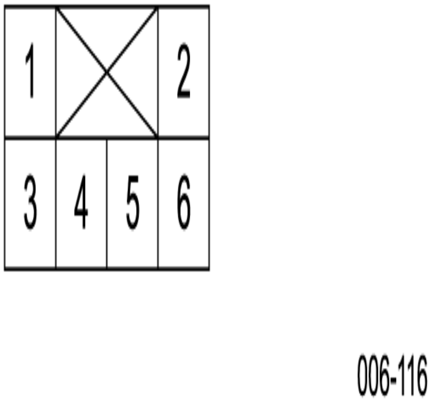
No.	Connector Face
B-15 Blue	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 Cab J/B1.A
B-16 White	 1 2 3 4 5 6 7 8 9 10 11 12 012-074 4557714 Cab J/B1.B

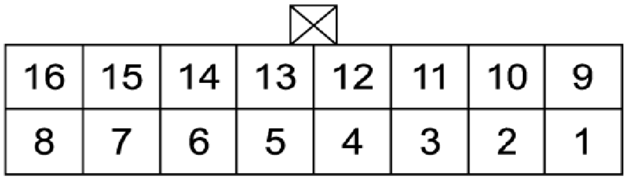
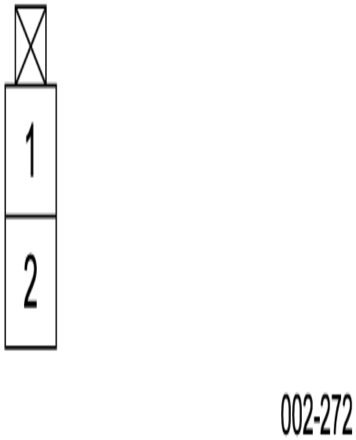
No.	Connector Face
B-17 White	 1 2 3 4 5 6 7 8 9 009-021 4557715 Cab J/B1.D
B-18 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 013-008 4557716 Cab J/B1.E

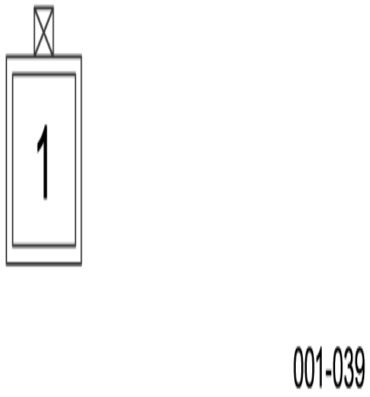
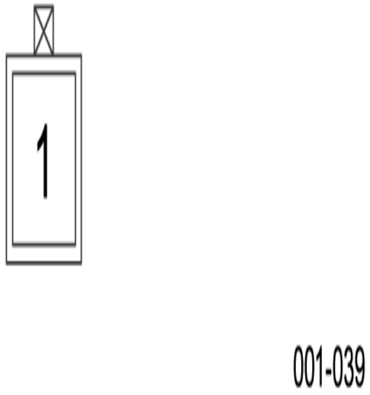
No.	Connector Face
B-19 White	 1 2 3 4 5 6 7 8 9 10 010-061 4557717 Cab J/B1.F
B-20 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 4557719 Cab J/B1.G

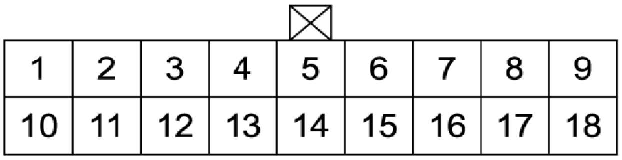
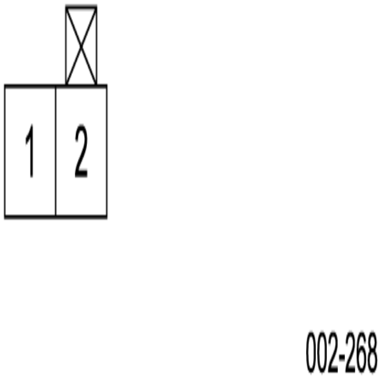
No.	Connector Face
B-21 White	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 Cab J/B1.H
B-22 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 4557720 Cab J/B1.J

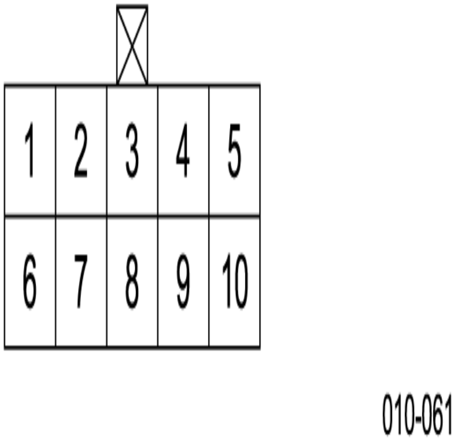
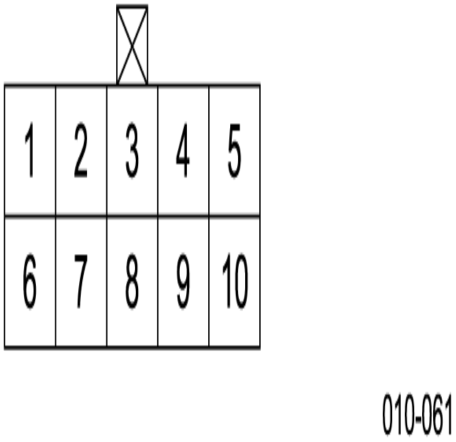
No.	Connector Face
B-23 White	 1 2 3 4 5 6 7 8 9 10 11 4557721 Cab J/B1.K
B-24 White	 4557710 Cab J/B1.L

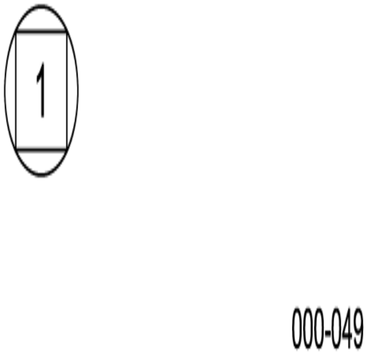
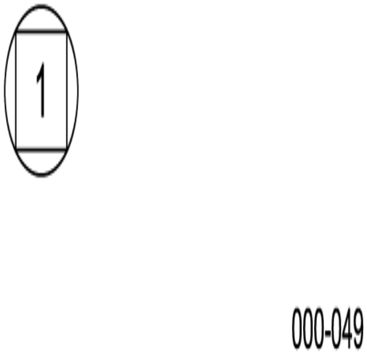
No.	Connector Face
B-25 White	 1 2 3 4 5 6 006-116 4557723 Cab J/B1.N
B-26 White	 1 2 3 4 5 6 006-116 4557723 Cab J/B1.P

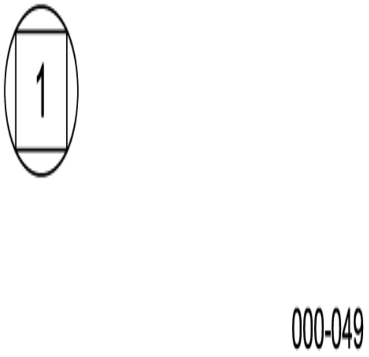
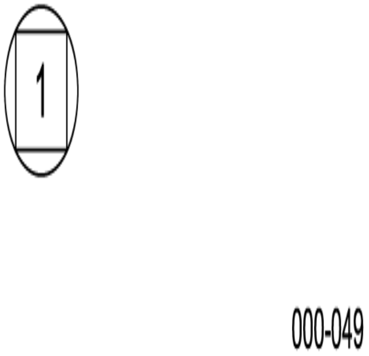
No.	Connector Face
B-31 Gray	 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 4557725 Data Link Connector
B-32 White	 4557727 Cigarette Illumination

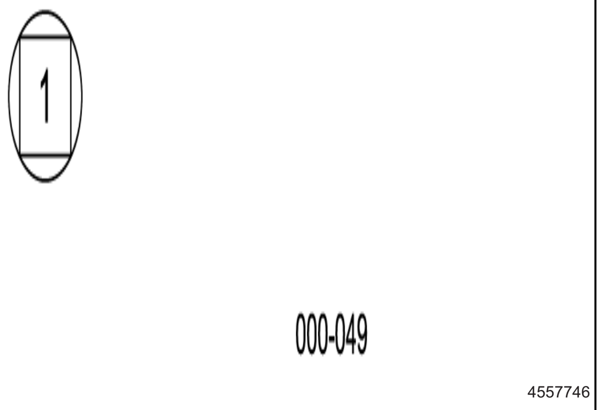
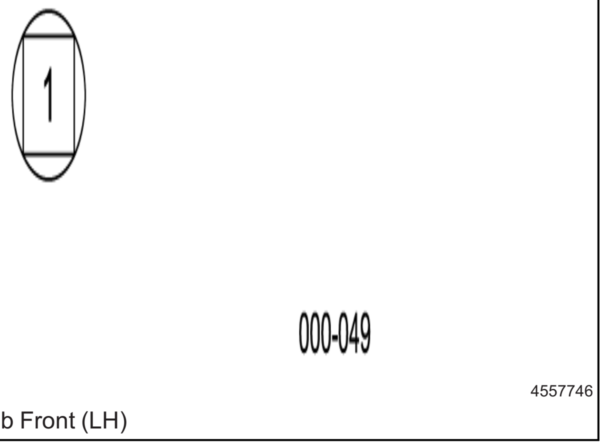
No.	Connector Face
B-33 White	 4557729 Cigarette Lighter.A
B-34 Black	 4557729 Cigarette Lighter.B

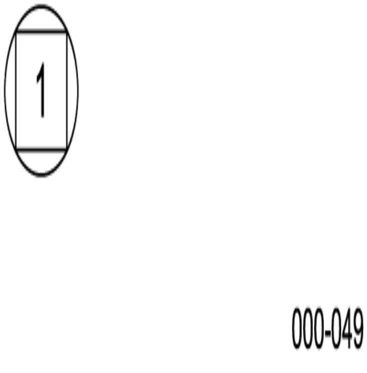
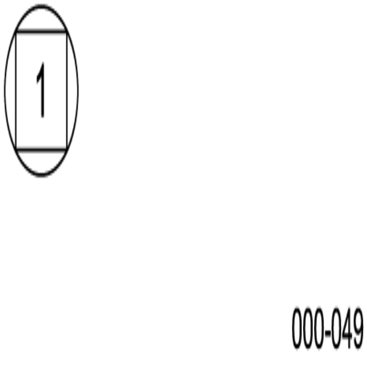
No.	Connector Face
B-35 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4557733 Combination Switch
B-39 Black	 4557737 Diode 1

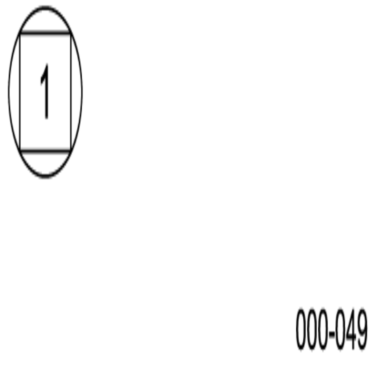
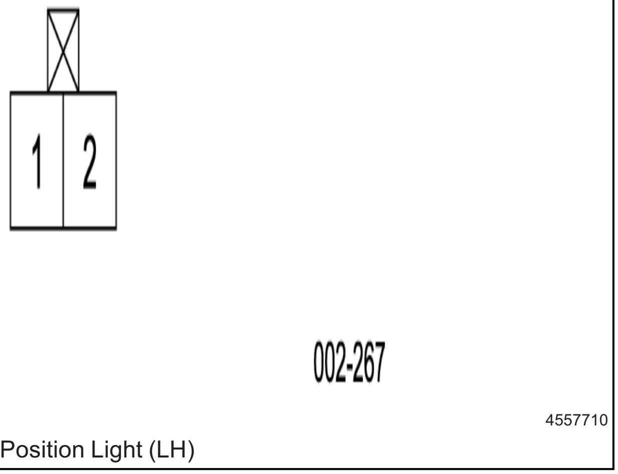
No.	Connector Face
B-48 White	 1 2 3 4 5 6 7 8 9 10 010-061 4557717 J/C-EA10P1
B-49 White	 1 2 3 4 5 6 7 8 9 10 010-061 4557717 J/C-EA10P2

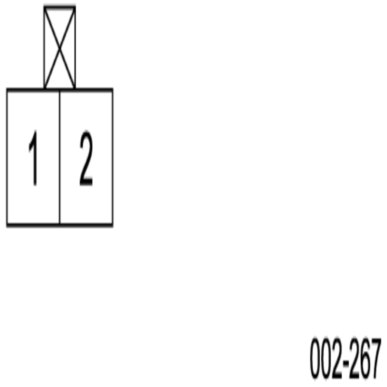
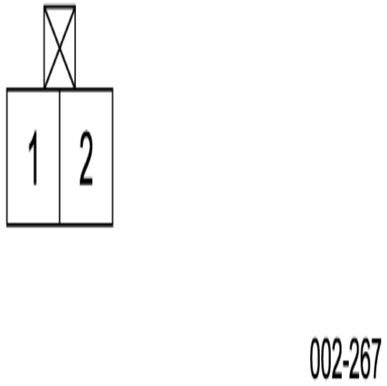
No.	Connector Face
B-51	 4557746 Cab Front (RH)
B-52	 4557746 Cab Front (LH)

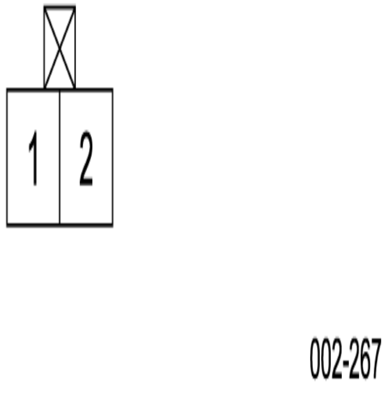
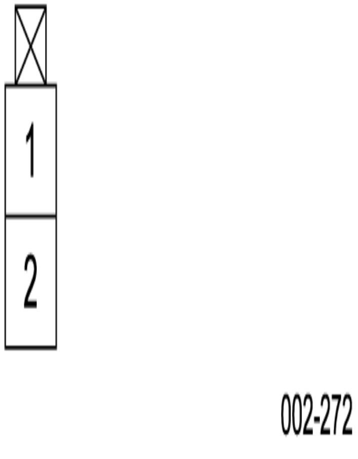
No.	Connector Face
B-53	 4557746 Cab Front (RH)
B-54	 4557746 Cab Front (RH)

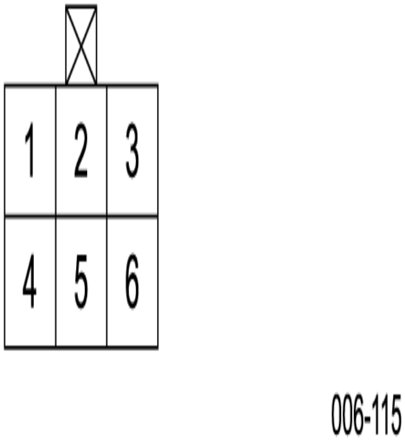
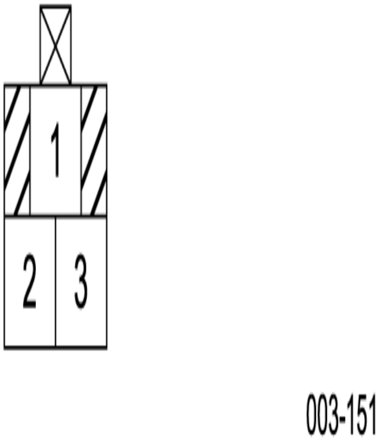
No.	Connector Face
B-56	 1 000-049 4557746 Cab Front (LH)
B-57	 1 000-049 4557746 Cab Front (LH)

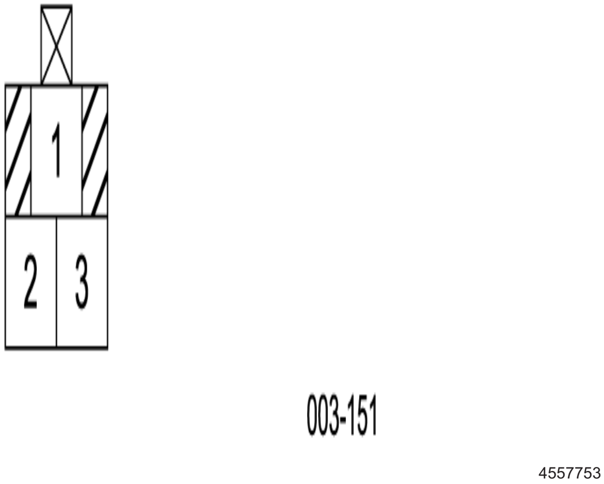
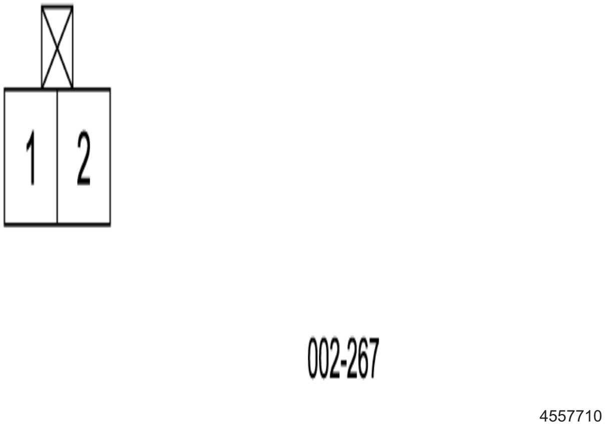
No.	Connector Face
B-58	 1 000-049 4557746 Cab Front (RH)
B-59	 1 000-049 4557746 Cab Front (RH)

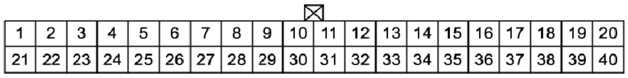
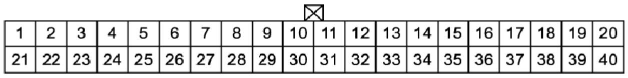
No.	Connector Face
B-60	 1 000-049 4557746 Cab Front (LH)
B-70 Gray	 1 2 002-267 4557710 Frontt Position Light (LH)

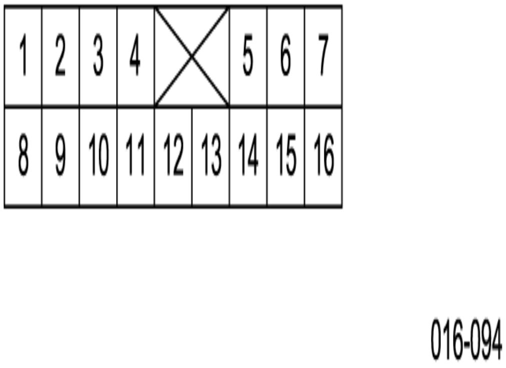
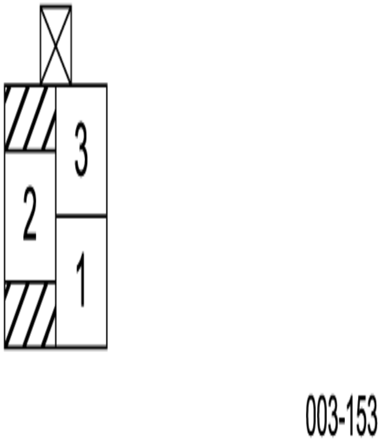
No.	Connector Face
B-71 Gray	 4557710 Front Position Light (RH)
B-72 Gray	 4557710 Front Turn Signal Light (LH)

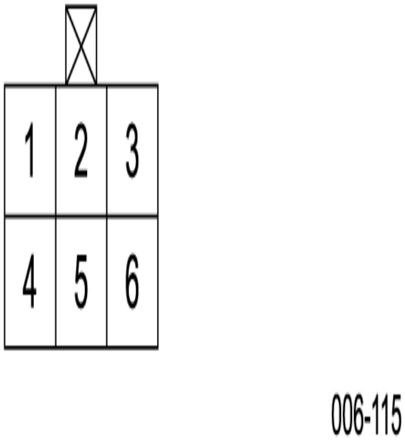
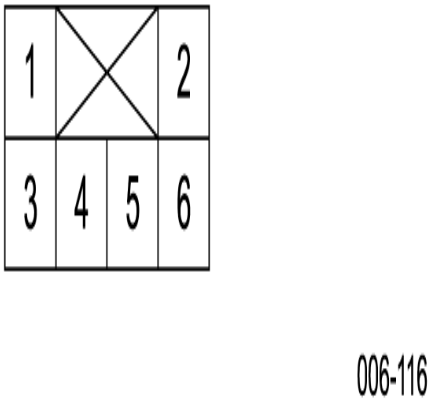
No.	Connector Face
B-73 Gray	 1 2 002-267 4557710 Front Turn Signal Light (RH)
B-74 White	 1 2 002-272 4557727 Front Washer Motor

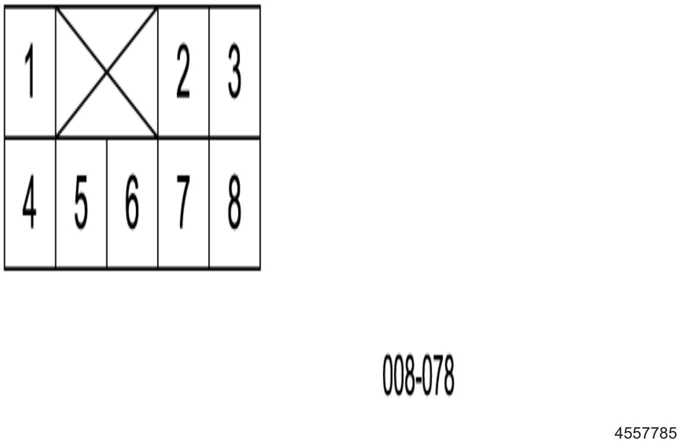
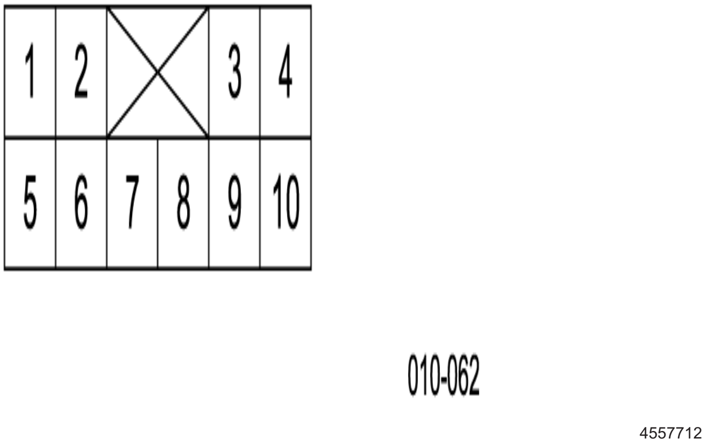
No.	Connector Face
B-75 White	 1 2 3 4 5 6 006-115 4557750 Front Wiper Motor
B-80 Black	 4557753 Headlight (LH)

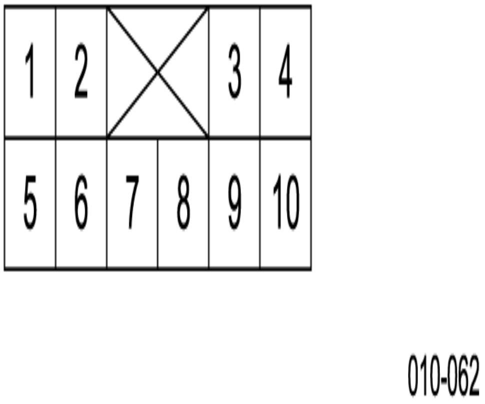
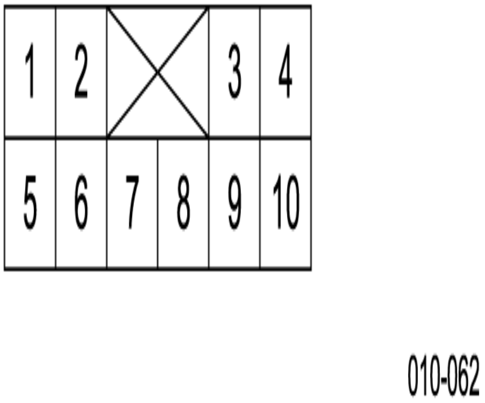
No.	Connector Face
B-81 Black	 1 2 3 003-151 4557753 Headlight (RH)
B-102 Gray	 1 2 002-267 4557710 Brake Fluid Level Switch

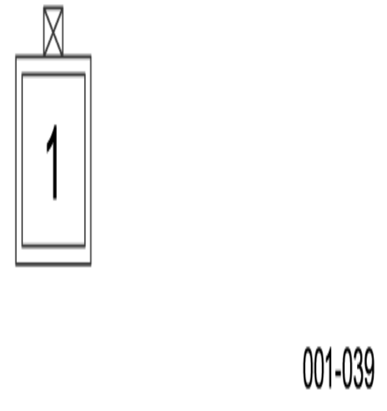
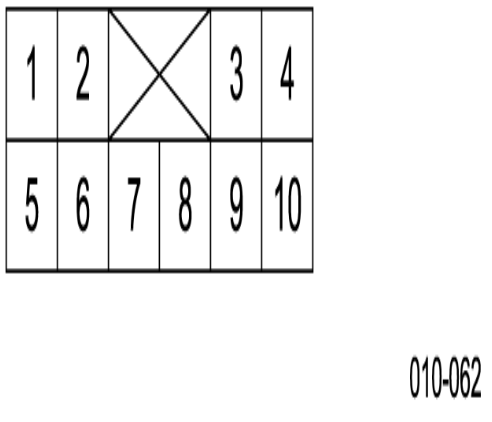
No.	Connector Face
B-105 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 4557763 Instrument Panel (IP) Cluster.A
B-106 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 4557763 Instrument Panel (IP) Cluster.B

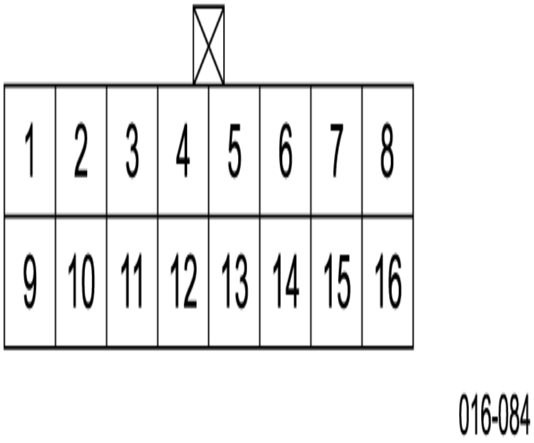
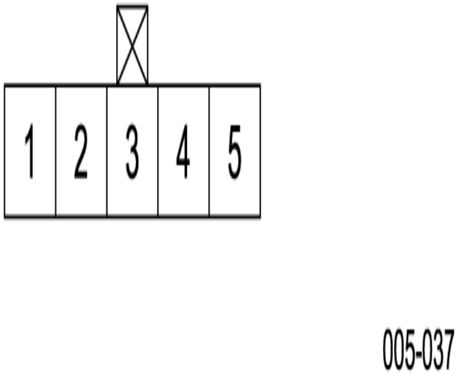
No.	Connector Face
B-115 Gray	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 016-094 4557779 Audio
B-125 Gray	 4557780 Master Cylinder Pressure Sensor

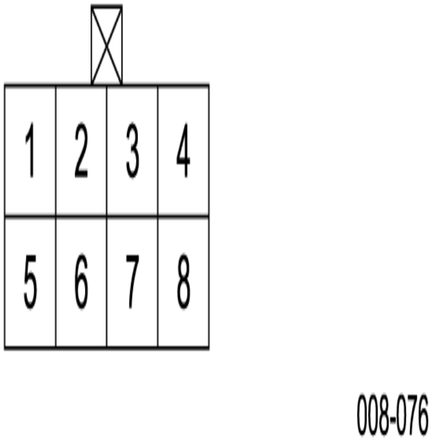
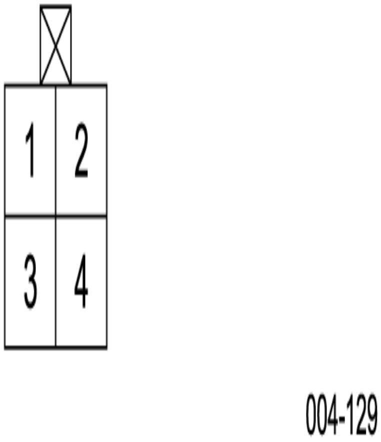
No.	Connector Face
B-130 White	 1 2 3 4 5 6 006-115 4557750 Ignition Switch
B-158 White	 1 2 3 4 5 6 006-116 4557723 A/C Switch

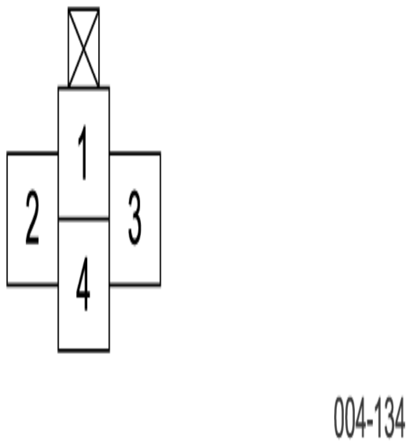
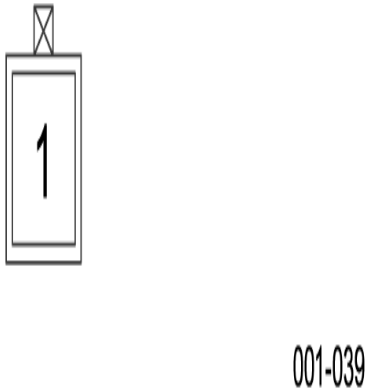
No.	Connector Face
B-160 White	 1 2 3 4 5 6 7 8 008-078 4557785 Fan Control Switch
B-170 Black	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 Hazard Warning Flasher Switch

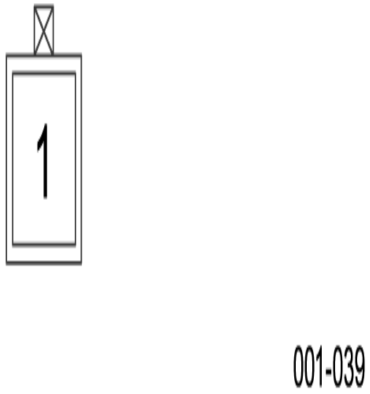
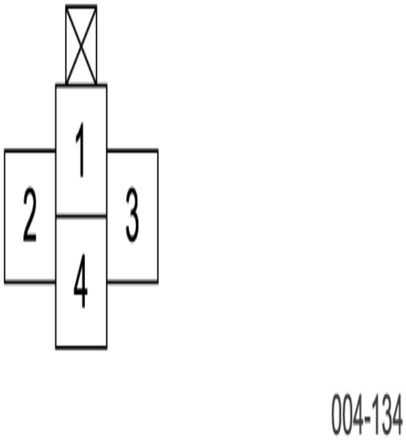
No.	Connector Face
B-174 Gray	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 Mirror Heater Switch
B-175 Blue	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 RR Power Window Switch

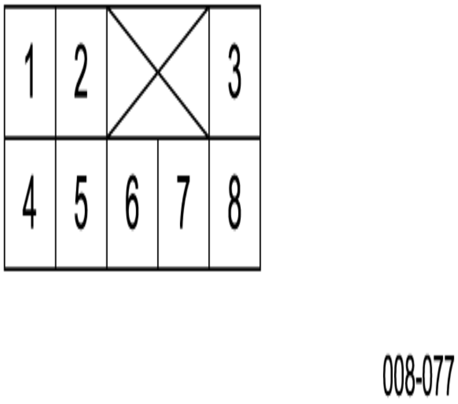
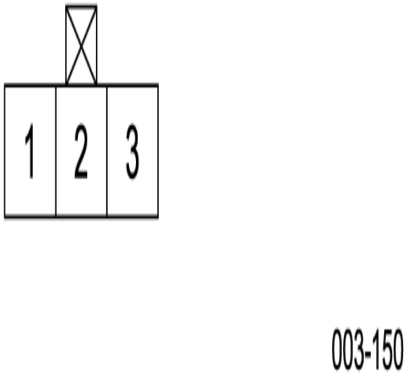
No.	Connector Face
B-184 Black	 1 001-039 4557729 Vacuum Tank Switch
B-187 Black	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 RR Window Lock Switch

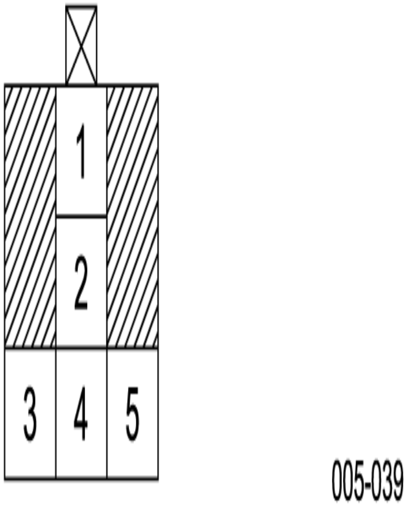
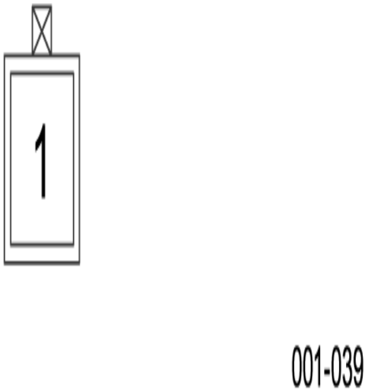
No.	Connector Face
B-188 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 016-084 4557798 Wiper Switch
B-189 Black	 1 2 3 4 5 005-037 4557804 Electronic Thermostat

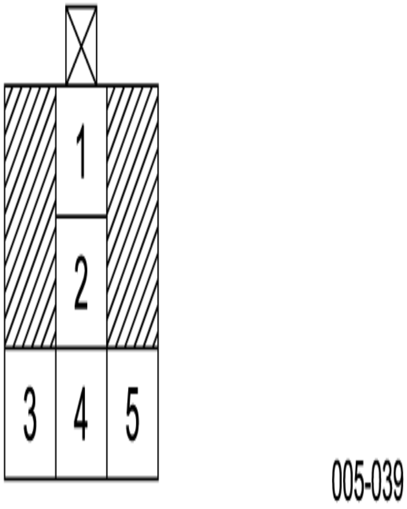
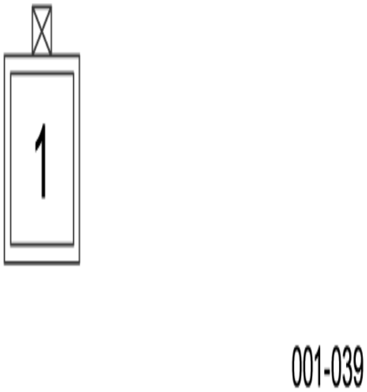
No.	Connector Face
B-210 Black	 1 2 3 4 5 6 7 8 008-076 4557806 Intermittent Relay
B-211 White	 1 2 3 4 004-129 4557711 Stoplight Switch

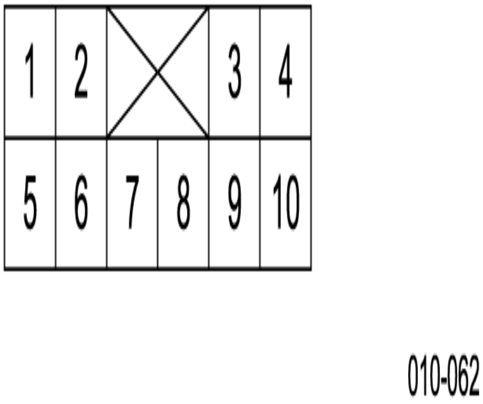
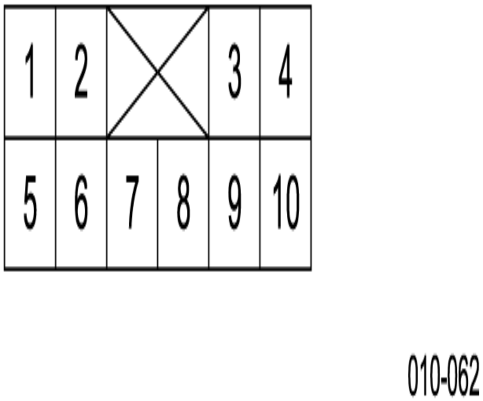
No.	Connector Face
B-212 Black	 4557812 Power Accessory Relay
B-213 White	 4557729 Accessory Socket.A

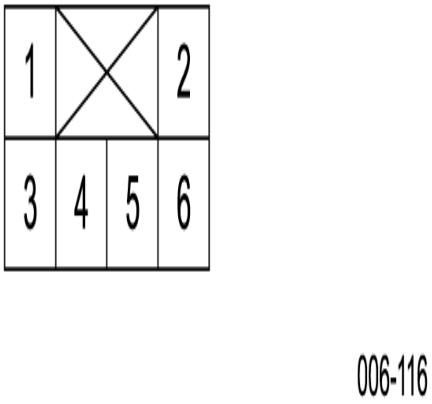
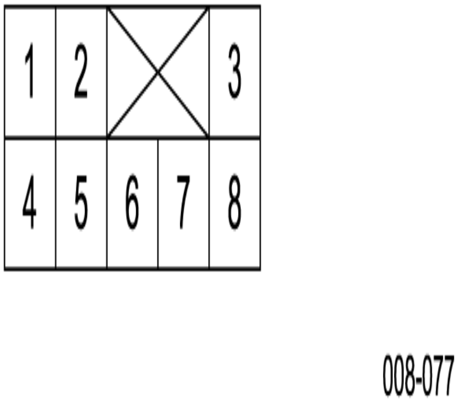
No.	Connector Face
B-214 White	 4557729 Accessory Socket.B
B-215 Black	 1 2 3 4 004-134 4557812 Blower Relay

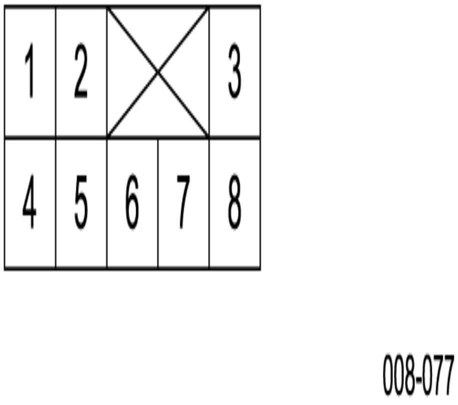
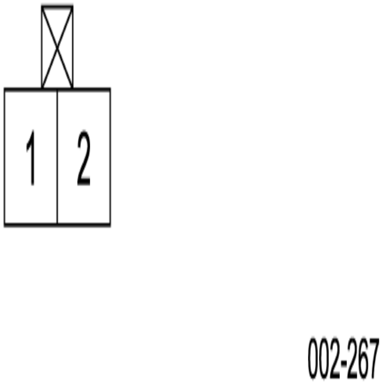
No.	Connector Face
B-216 Blue	 1 2 3 4 5 6 7 8 008-077 4557832 Flasher Unit
B-217 White	 4557844 Cab J/B1.M

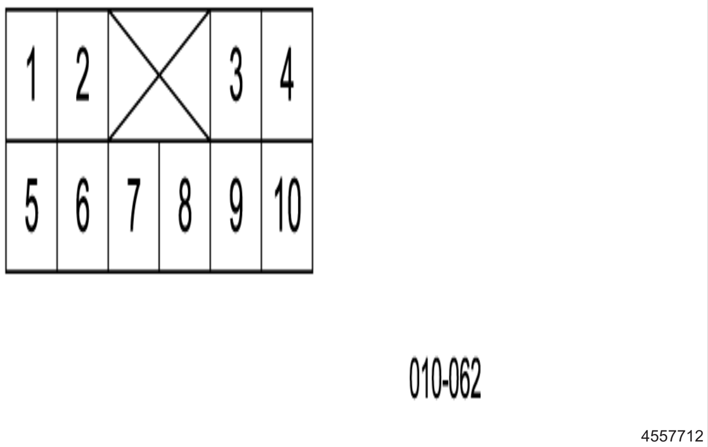
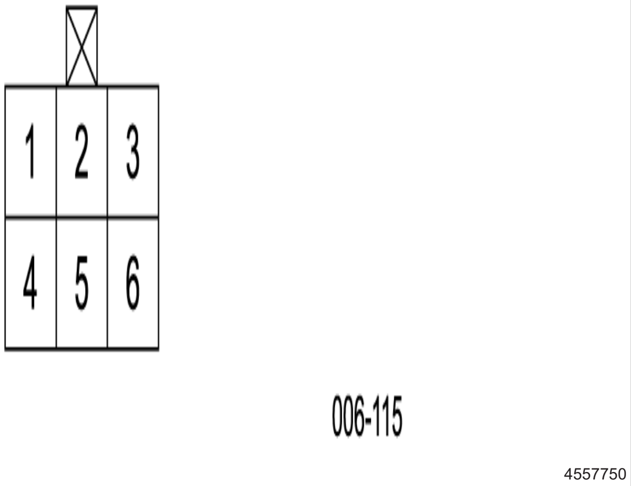
No.	Connector Face
B-218	 1 2 3 4 5 005-039 4557846 Cigarette Lighter Relay
B-220 White	 4557729 Power Source

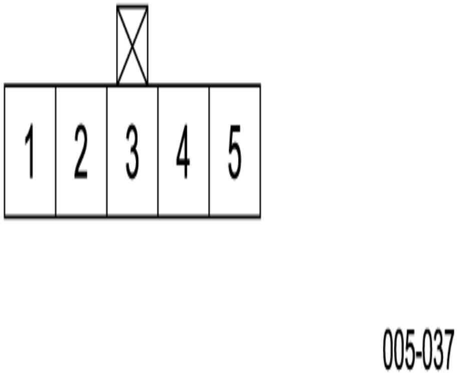
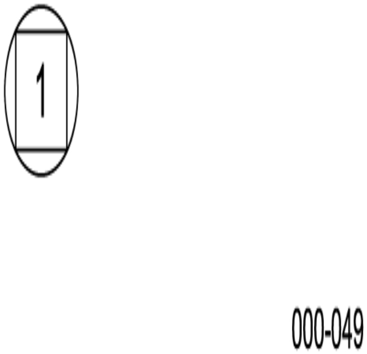
No.	Connector Face
B-222 Black	 1 2 3 4 5 005-039 4557846 RR Dome Light Switch
B-223 White	 4557729 Horn Switch

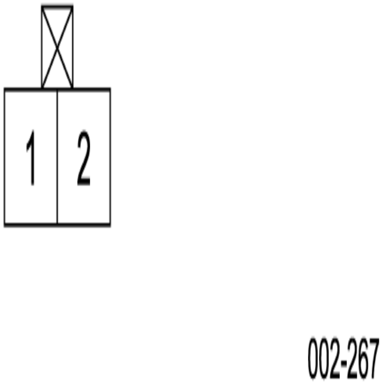
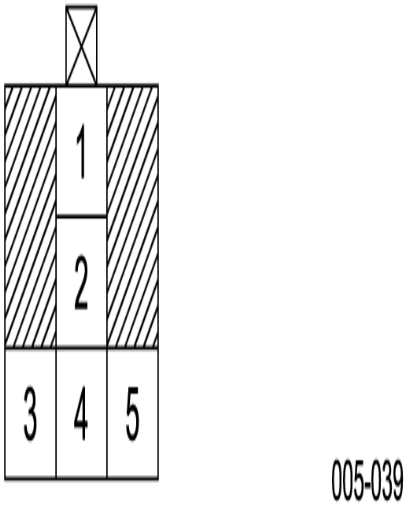
No.	Connector Face
B-224 Brown	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 Cruise Main Switch
B-225 Black	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 DRL Control Unit.A

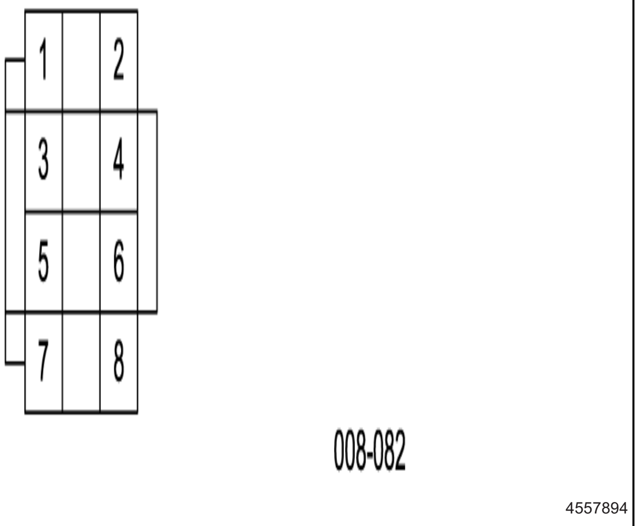
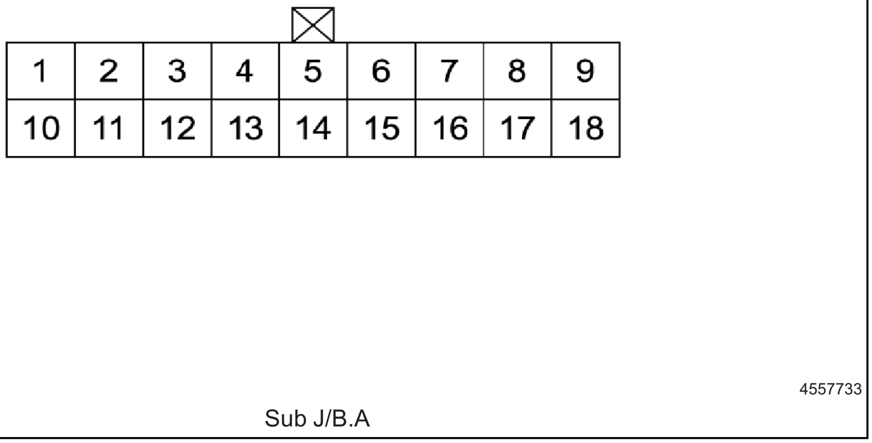
No.	Connector Face
B-226 Black	 1 2 3 4 5 6 006-116 4557723 DRL Control Unit.B
B-227 Gray	 1 2 3 4 5 6 7 8 008-077 4557832 Door Lock Controller

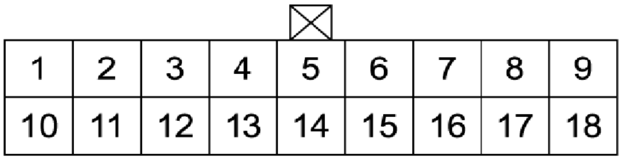
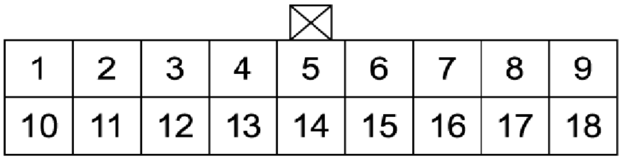
No.	Connector Face
B-232 White	 1 2 3 4 5 6 7 8 008-077 4557832 Cab J/B1.C
B-238 White	 4557710 Vacuum Pump Motor

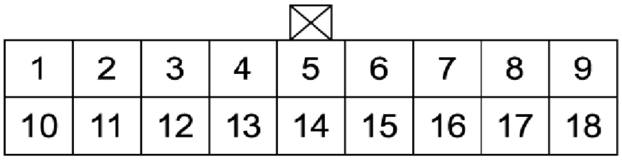
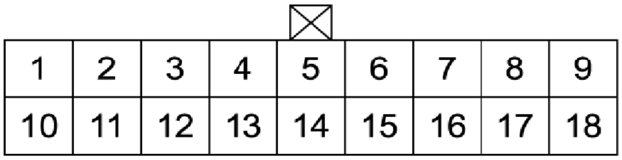
No.	Connector Face
B-239 Blue	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 Miles Check Switch
B-240 Blue	 1 2 3 4 5 6 006-115 4557750 Door Lock Switch

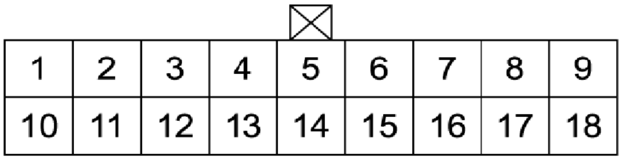
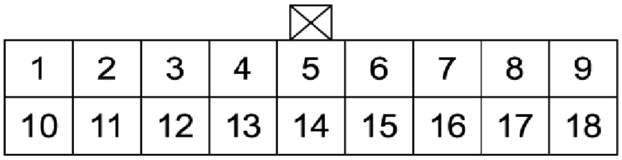
No.	Connector Face
B-241 Black	 1 2 3 4 5 005-037 4557804 Illumination Control Switch
B-244	 4557746 Cab Front (LH)

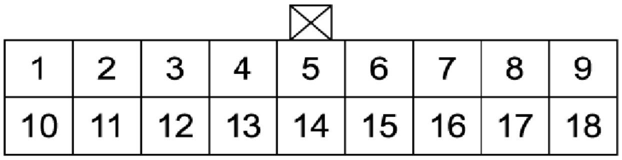
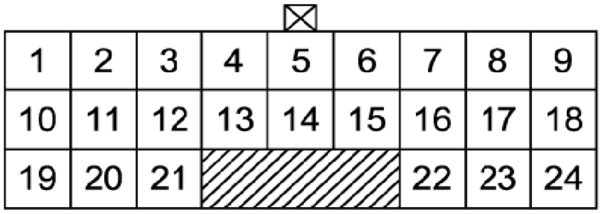
No.	Connector Face
B-245 White	 4557710 Defroster Switch
B-246	 1 2 3 4 5 005-039 4557846 Cornering Light Relay

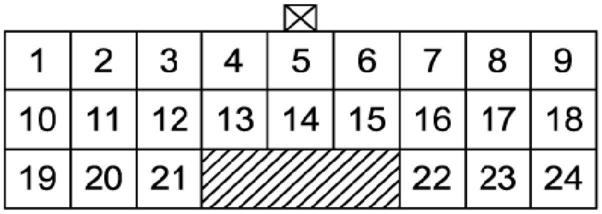
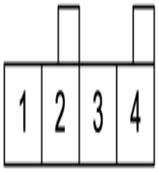
No.	Connector Face
B-250	 1 2 3 4 5 6 7 8 008-082 4557894 Fuse Block
B-253 (White)	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4557733 Sub J/B.A

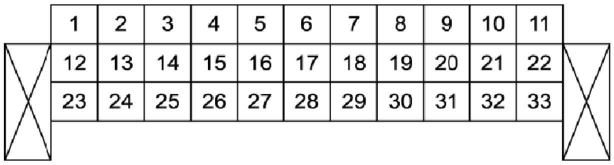
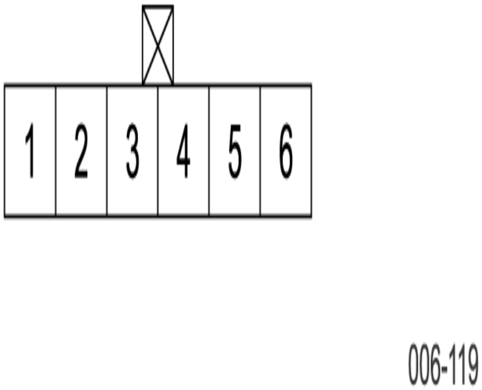
No.	Connector Face
B-254 (Black)	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4557733 Sub J/B.B
B-255 (Gray)	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4557733 Sub J/B.C

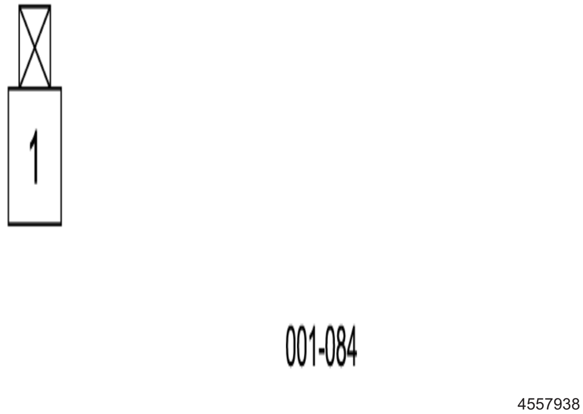
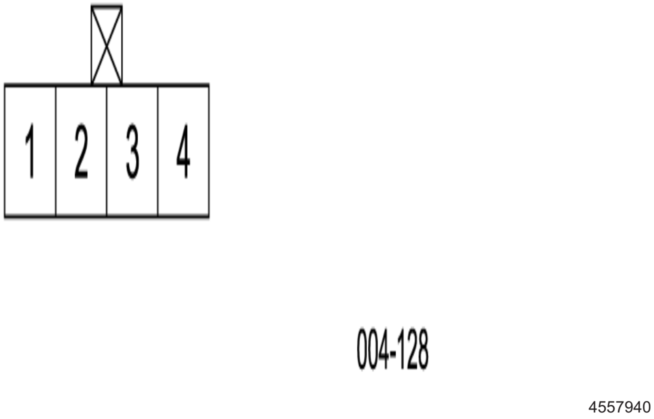
No.	Connector Face
B-256 (Blue)	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4557733 Sub J/B.D
B-257 (Red)	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4557733 Sub J/B.E

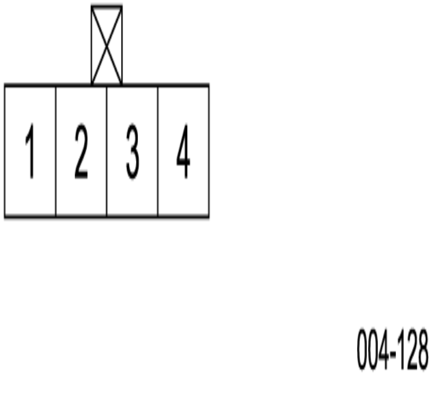
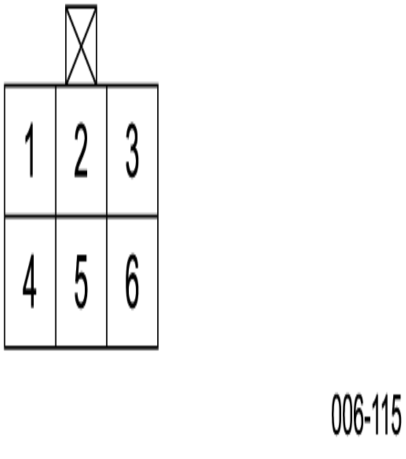
No.	Connector Face
B-258 (Brown)	 4557733 Sub J/B.F
B-259 (Green)	 4557733 Sub J/B.G

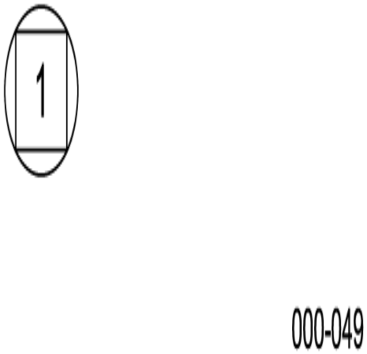
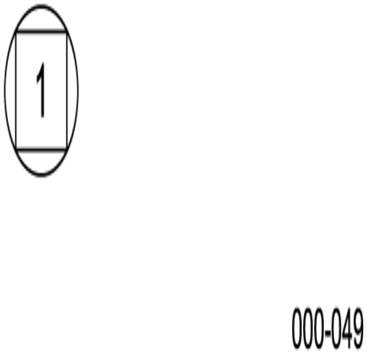
No.	Connector Face
B-260 (Orange)	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4557733 Sub J/B.H
B-261 (Gray)	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 4557907 PIM.A

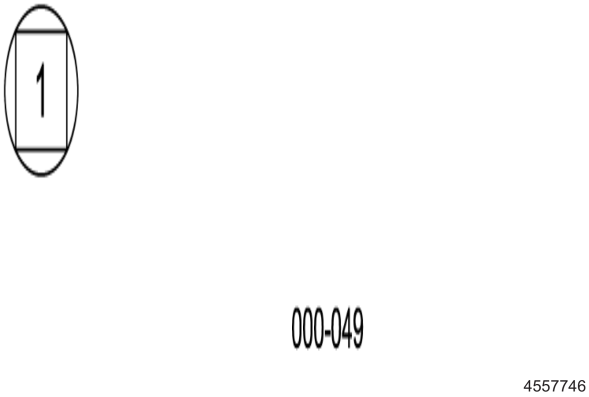
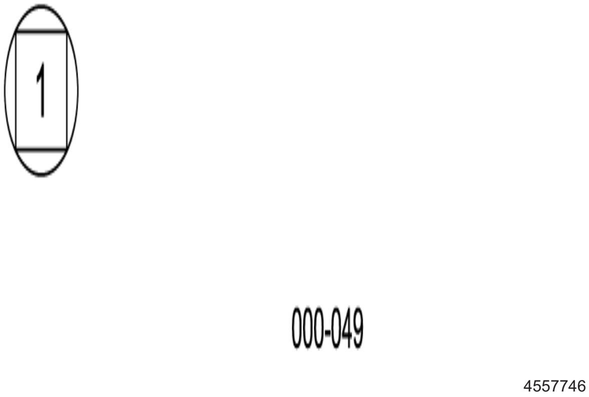
No.	Connector Face
B-262 (White)	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 4557907 PIM.B
B-263 (Black)	 004-137 4557910 Diode.A

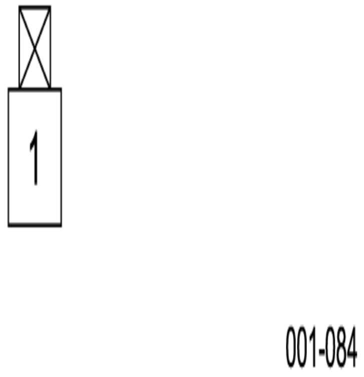
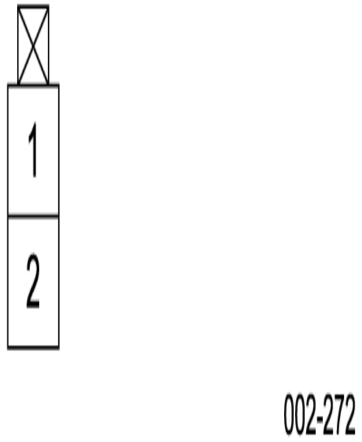
No.	Connector Face
B-264 (White)	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 4557922 J/C-30P
B-265 (Black)	 1 2 3 4 5 6 006-119 4557934 Accelerator Sensor

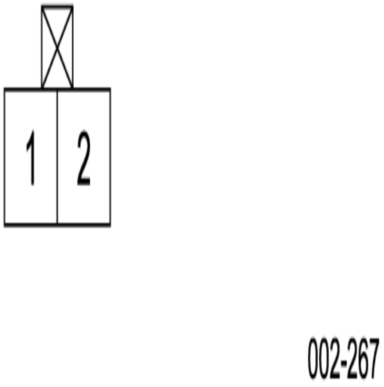
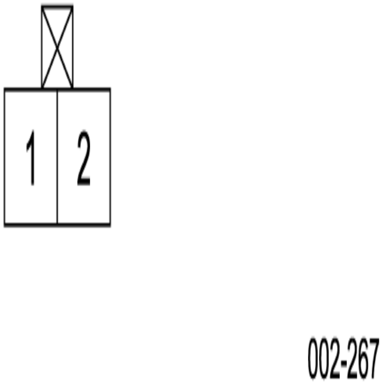
No.	Connector Face
B-266 (White)	 1 001-084 4557938 AC Present
B-267 White	 1 2 3 4 004-128 4557940 J/C-30

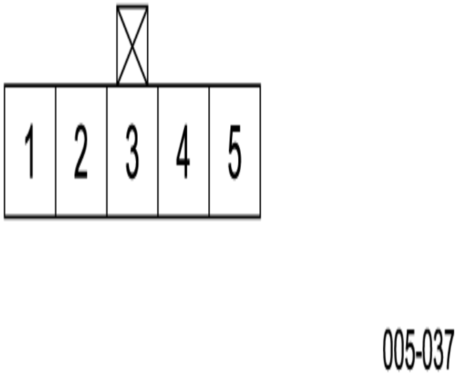
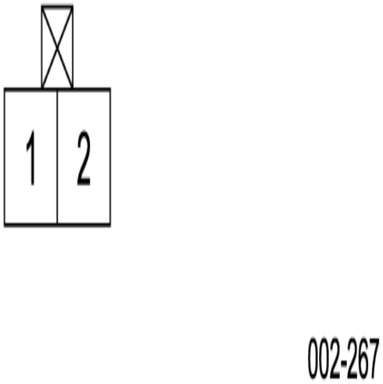
No.	Connector Face
B-268 White	 1 2 3 4 004-128 4557940 J/C-31
B-373 White	 1 2 3 4 5 6 006-115 4557750 RR Body Switch

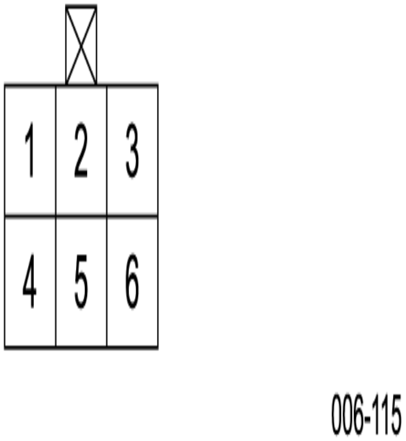
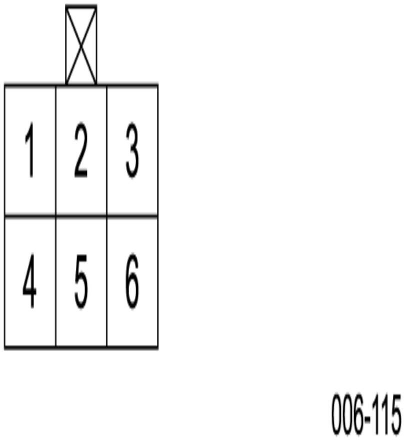
No.	Connector Face
B-409	 4557746 EXT_ETB-1
B-410	 4557746 EXT_ETB-2

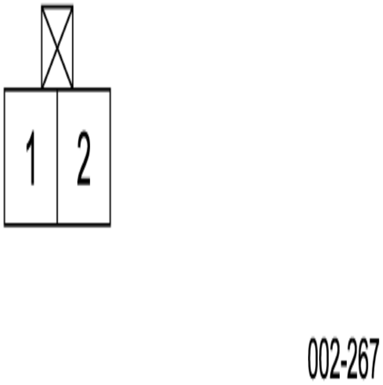
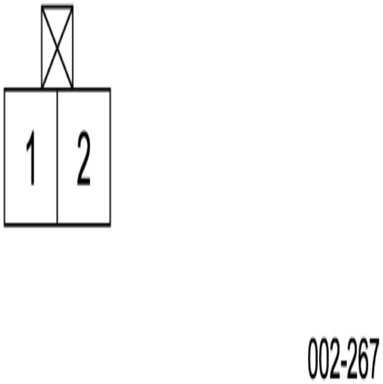
No.	Connector Face
B-411	 1 000-049 4557746 EXT_ETB-3
B-412	 1 000-049 4557746 EXT_ETB-4

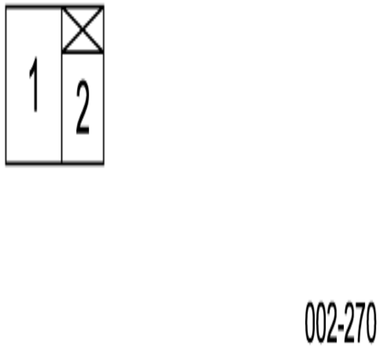
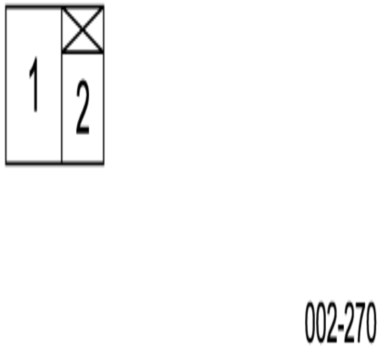
No.	Connector Face
B-413 Black	 4557938 TR Brake
B-437 Blue	 4557727 Resistor

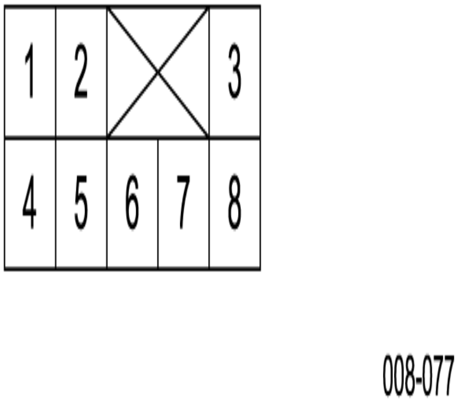
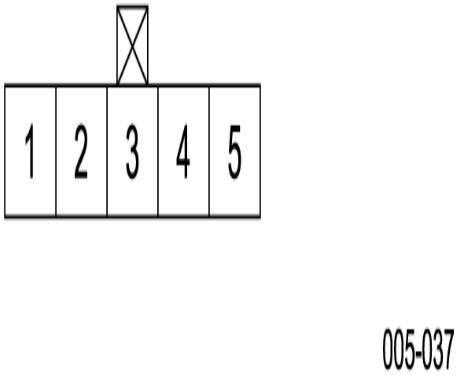
No.	Connector Face
D-2 Gray	 4557710 Front Cornering Light (LH)
D-3 Gray	 4557710 Front Cornering Light (RH)

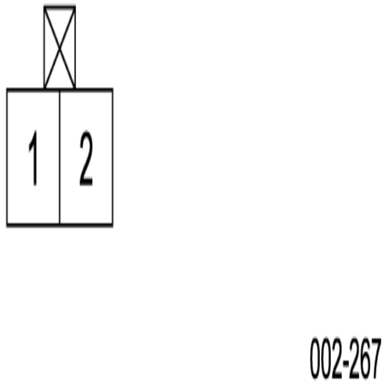
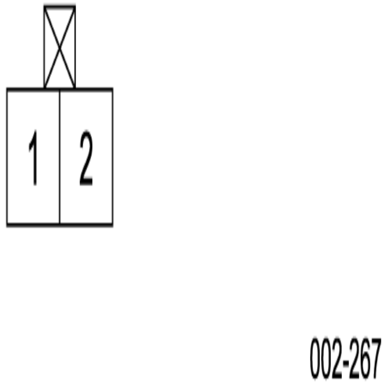
No.	Connector Face
D-5 Gray	 1 2 3 4 5 005-037 4557804 Front Door Lock Motor (LH)
D-7 Gray	 4557710 Front Door Lock Motor (RH)

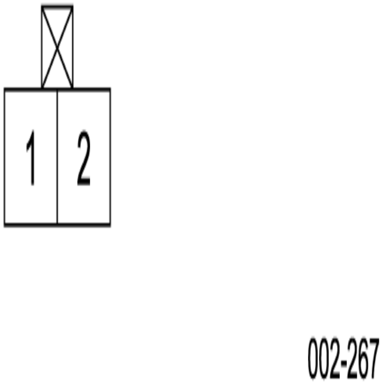
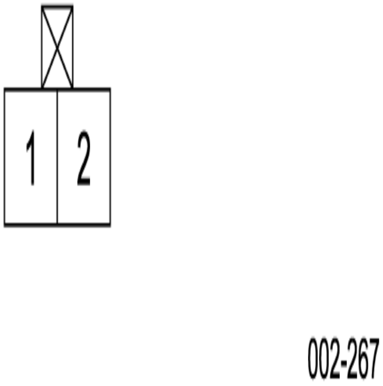
No.	Connector Face
D-9 Green	 1 2 3 4 5 6 006-115 4557750 Front Power Window Motor (LH)
D-11 Green	 1 2 3 4 5 6 006-115 4557750 Front Power Window Motor (RH)

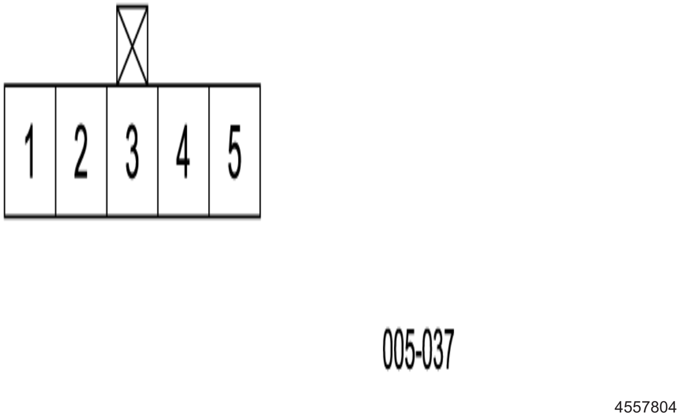
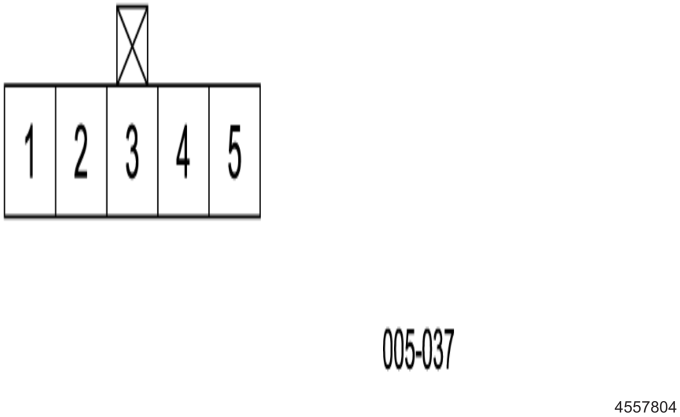
No.	Connector Face
D-12 Brown	 4557710 Side Turn Signal Light (LH)
D-13 Brown	 4557710 Side Turn Signal Light (RH)

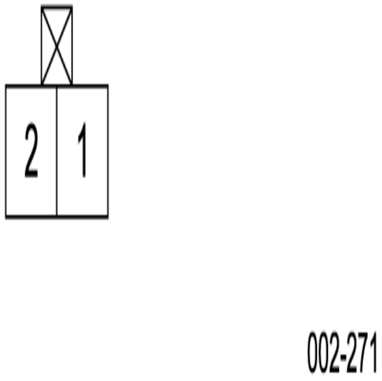
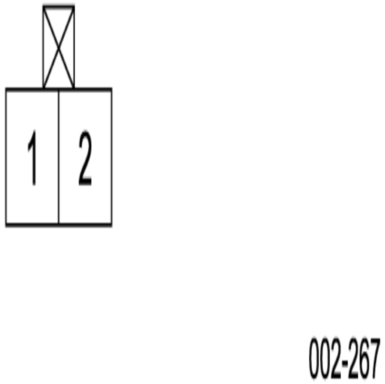
No.	Connector Face
D-17 Black	 4557969 Speaker (LH)
D-19 Black	 4557969 Speaker (RH)

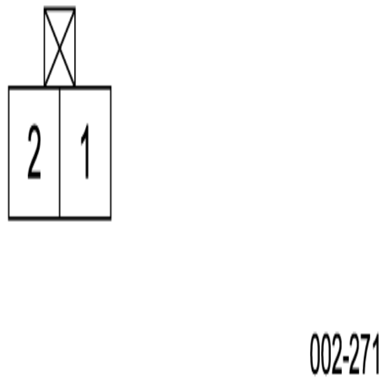
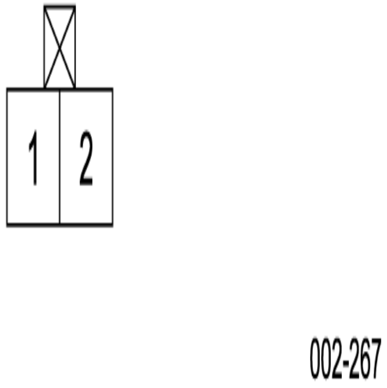
No.	Connector Face
D-21 White	 1 2 3 4 5 6 7 8 008-077 4557832 Front Power Window Switch (LH)
D-22 Gray	 1 2 3 4 5 005-037 4557804 Front Power Window Switch (RH)

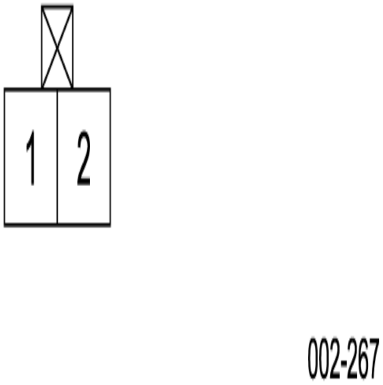
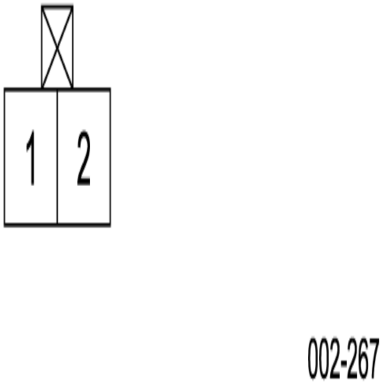
No.	Connector Face
D-23 Gray	 4557710 RR Door Lock Motor (LH)
D-24 Gray	 4557710 RR Door Lock Motor (RH)

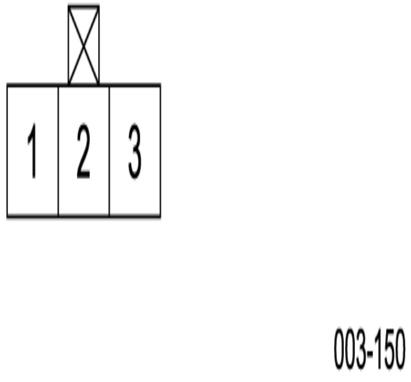
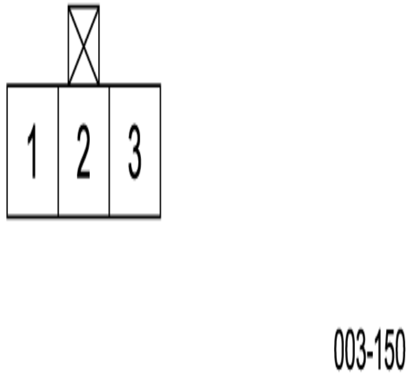
No.	Connector Face
D-25 White	 4557710 RR Power Window Motor (LH)
D-26 White	 4557710 RR Power Window Motor (RH)

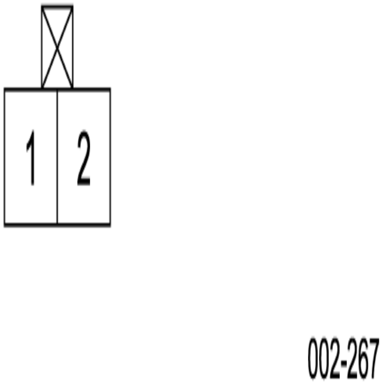
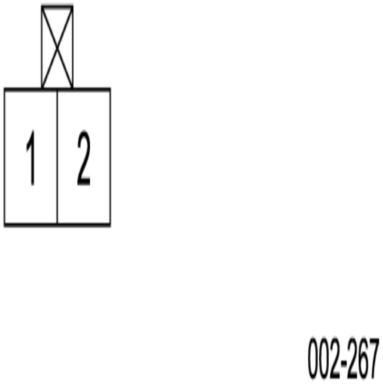
No.	Connector Face
D-27 White	 1 2 3 4 5 005-037 4557804 RR Power Window Switch (LH)
D-28 White	 1 2 3 4 5 005-037 4557804 RR Power Window Switch (RH)

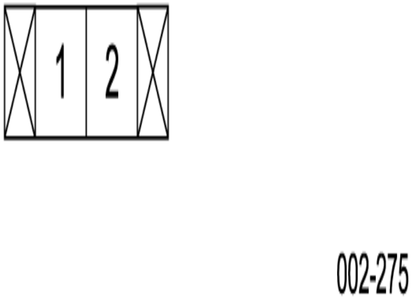
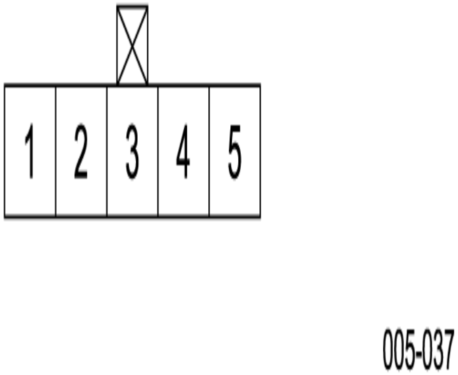
No.	Connector Face
D-40 Gray	 4557993 Mirror Heater (LH)
D-41 Gray	 4557710 Side Marker Light (LH)

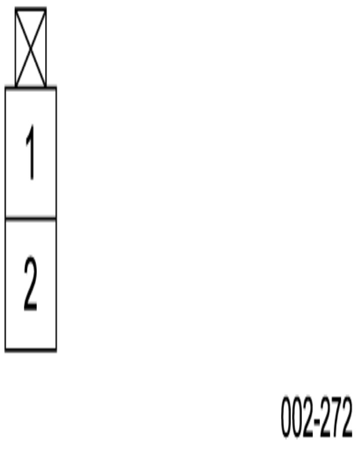
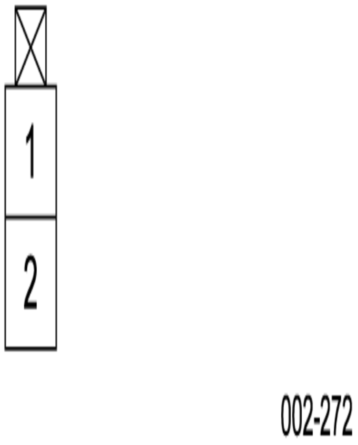
No.	Connector Face
D-42 Gray	 4557993 Mirror Heater (RH)
D-43 Gray	 4557710 Side Marker Light (RH)

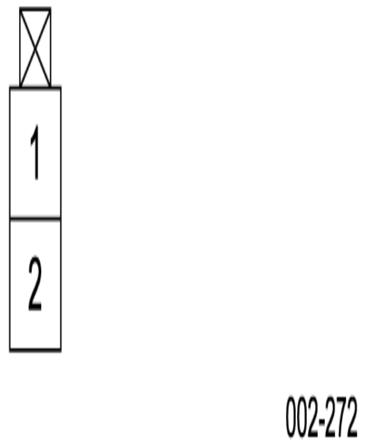
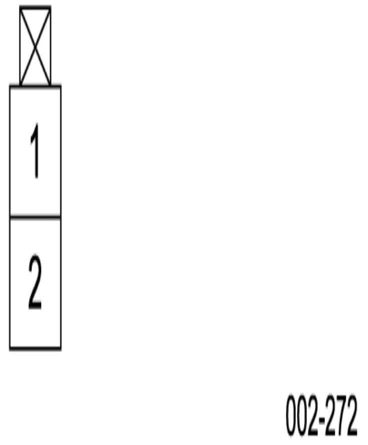
No.	Connector Face
E-25 Black	 4557710 Engine Coolant Temp Sensor
E-51 Black	 4557710 AC Generator

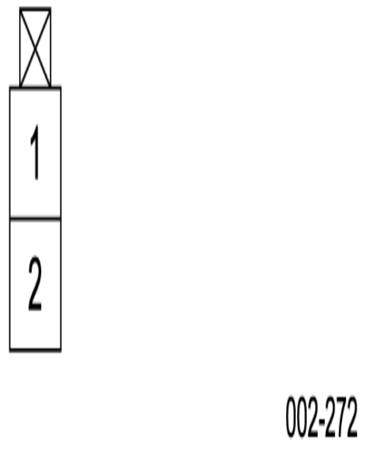
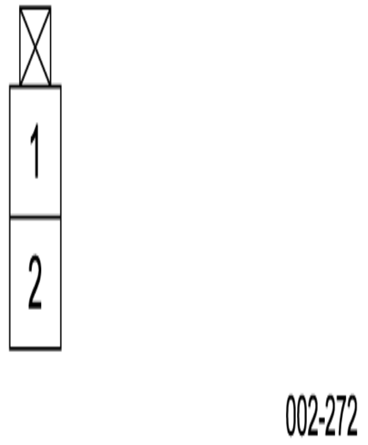
No.	Connector Face
E-69 Grey	 4557844 Crankshaft Position Sensor
E-72 Black	 4557844 Boost Pressure Sensor

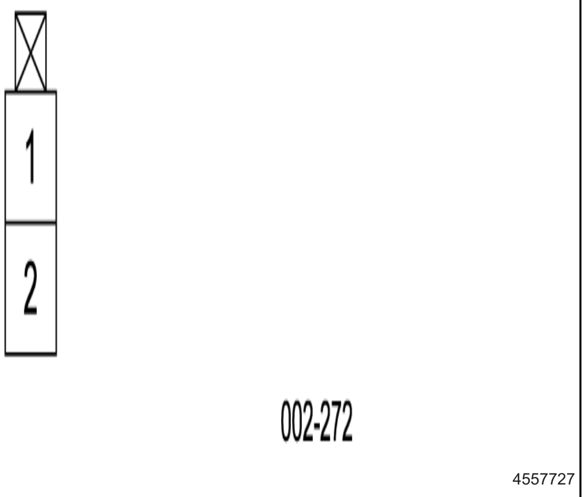
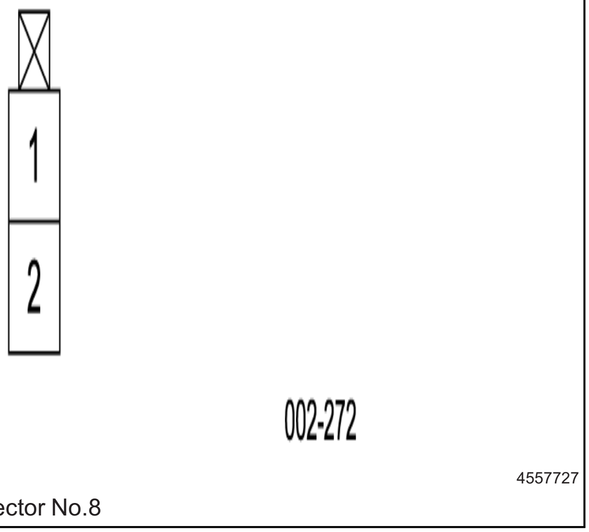
No.	Connector Face
E-80 (White)	 4557710 Knock Sensor 1 (LH)
E-81 (White)	 4557710 Knock Sensor 2 (RH)

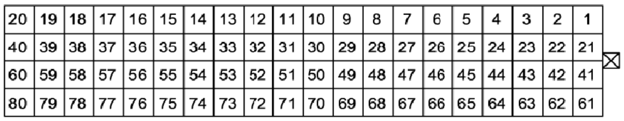
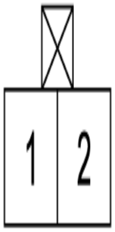
No.	Connector Face
E-82 (Gray)	 4558020 A/C Compressor
E-83 (Black)	 1 2 3 4 5 005-037 4557804 Camshaft Position Sensor

No.	Connector Face
E-87 (Black)	 4557727 Injector No.1
E-88 (Black)	 4557727 Injector No.2

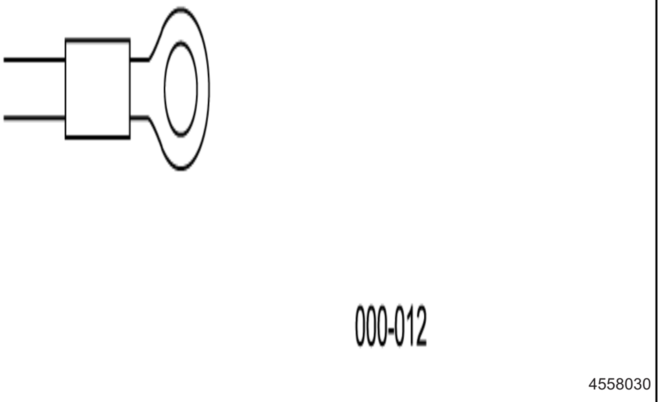
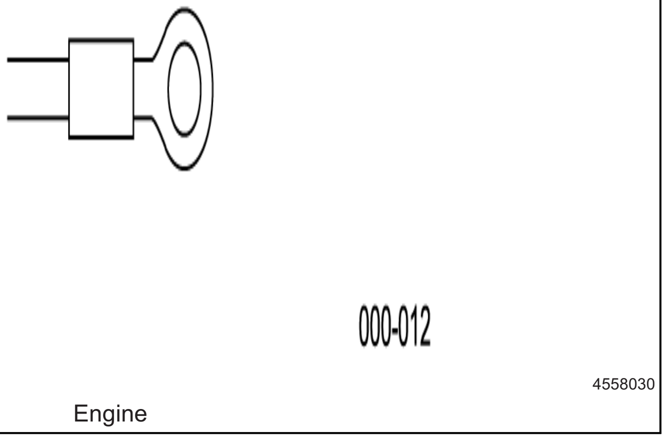
No.	Connector Face
E-89 (Black)	 4557727 Injector No.3
E-90 (Black)	 4557727 Injector No.4

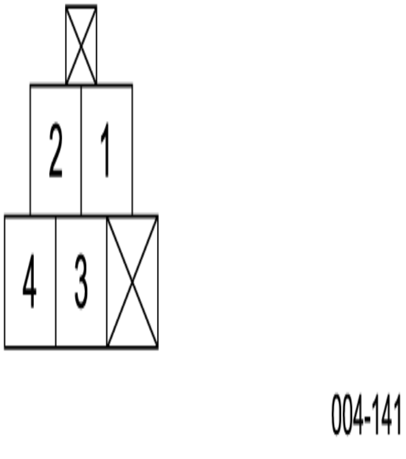
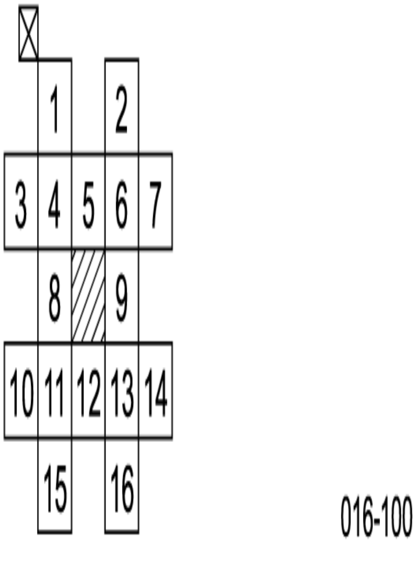
No.	Connector Face
E-91 (Black)	 4557727 Injector No.5
E-92 (Black)	 4557727 Injector No.6

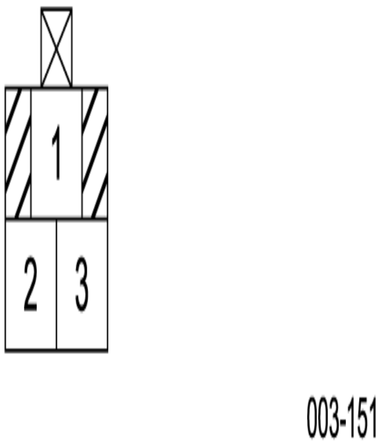
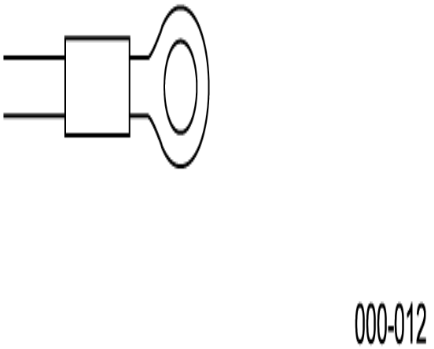
No.	Connector Face
E-93 (Black)	 1 2 002-272 4557727 Injector No.7
E-94 (Black)	 1 2 002-272 4557727 Injector No.8

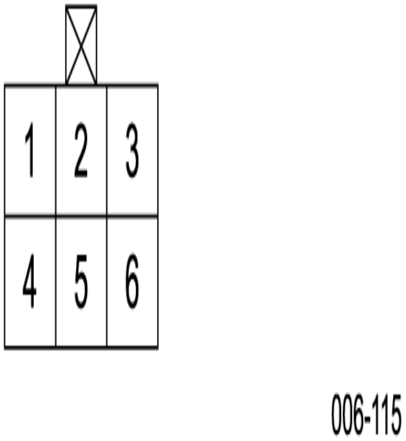
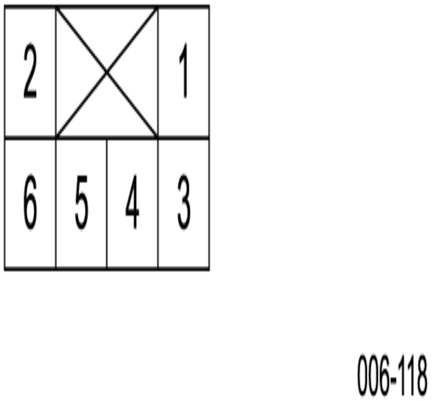
<table>
<tr><th>No.</th><th>Connector Face</th></tr>
<tr><td>E-95
(Gray)</td><td>
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21
60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61
4558027
PCM.B</td></tr>
<tr><td>E-96
(Black)</td><td>

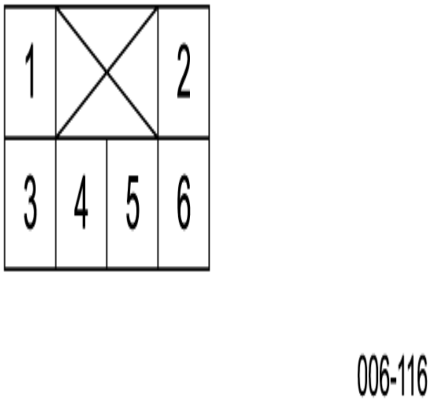
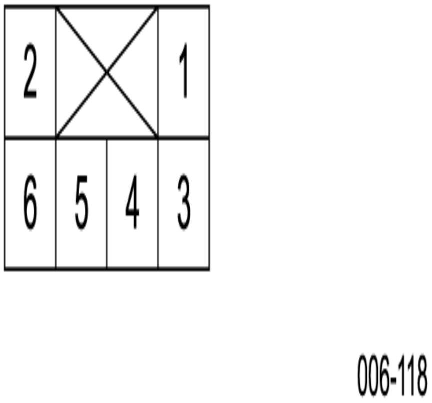
002-267
4557710
Canister Purge Solenoid Valve</td></tr>
</table>

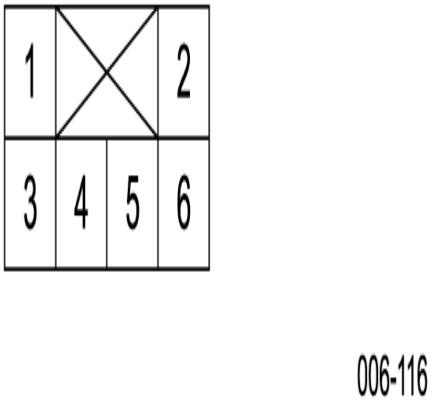
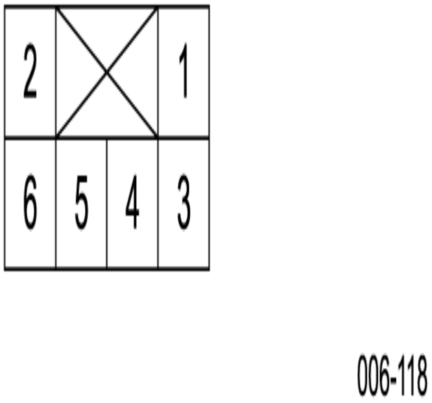
No.	Connector Face
E-97	 000-012 4558030 Engine
E-98	 000-012 4558030 Engine

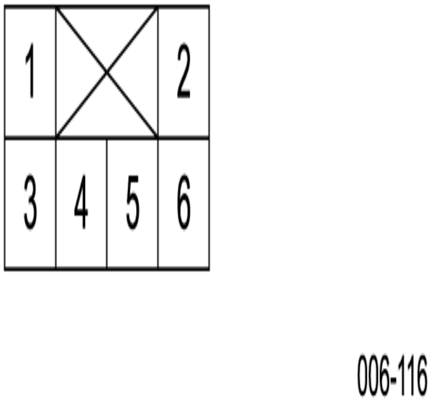
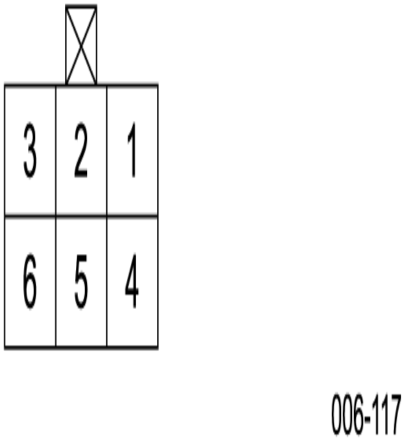
No.	Connector Face
E-99 (Black)	 2 1 4 3 004-141 4558031 Front Heater Sensor (LH)
E-100 (Gray)	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 016-100 4558088 Automatic Transmission

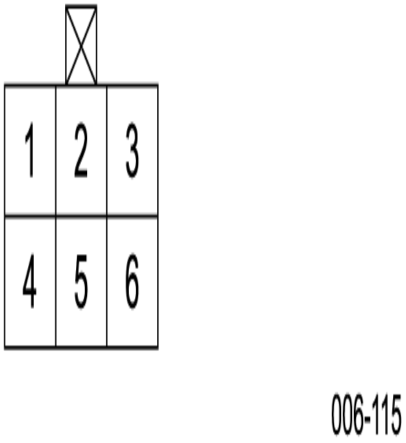
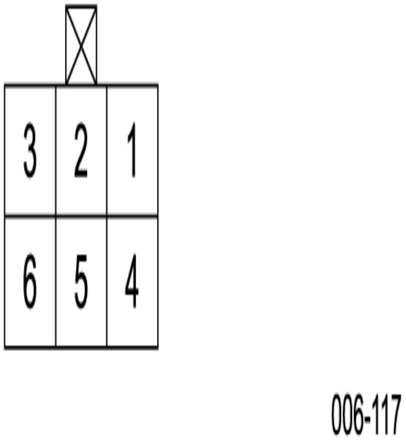
No.	Connector Face
E-104 (Black)	 4558084 Oil Pressure Sensor
E-105	 4558030 Engine

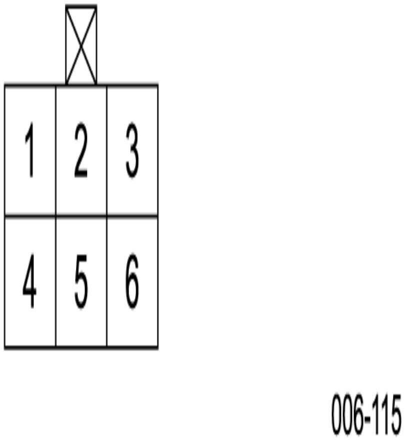
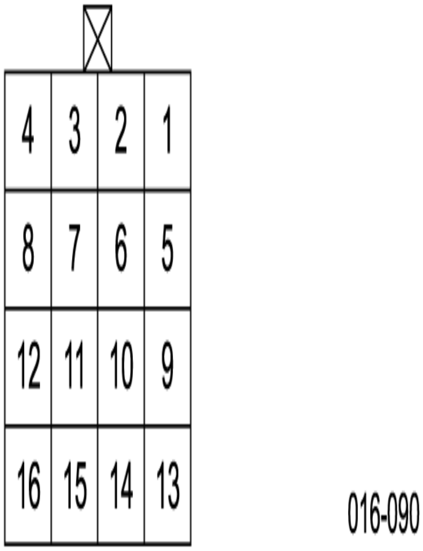
No.	Connector Face
E-106 (Black)	 1 2 3 4 5 6 006-115 4557750 Intake Throttle Motor and Position Sensor
H-31 White	 2 1 6 5 4 3 006-118 4558101 Inst H.– Door (LH) H.

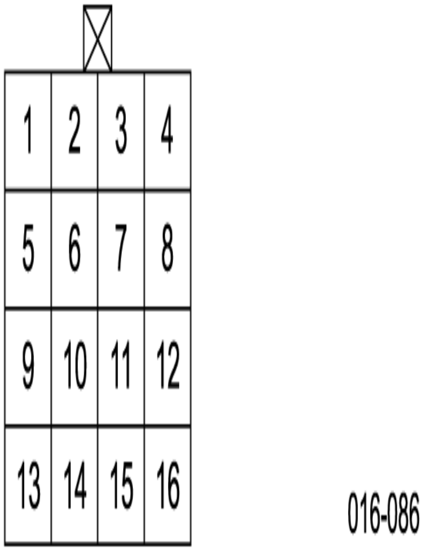
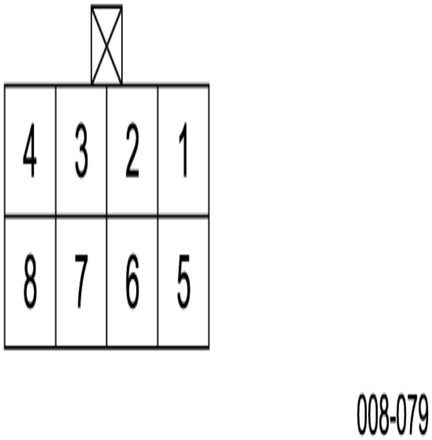
No.	Connector Face
H-31 White	 1 2 3 4 5 6 006-116 4558109 Inst H.– Door (LH) H.
H-32 Black	 2 1 6 5 4 3 006-118 4558101 Inst H.– Door (RH) H.

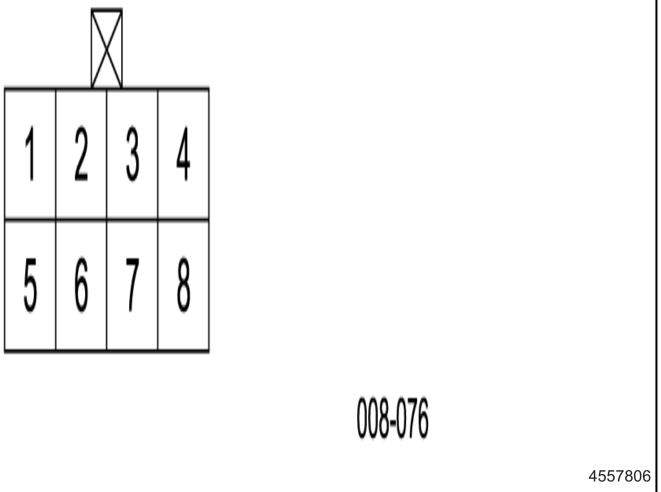
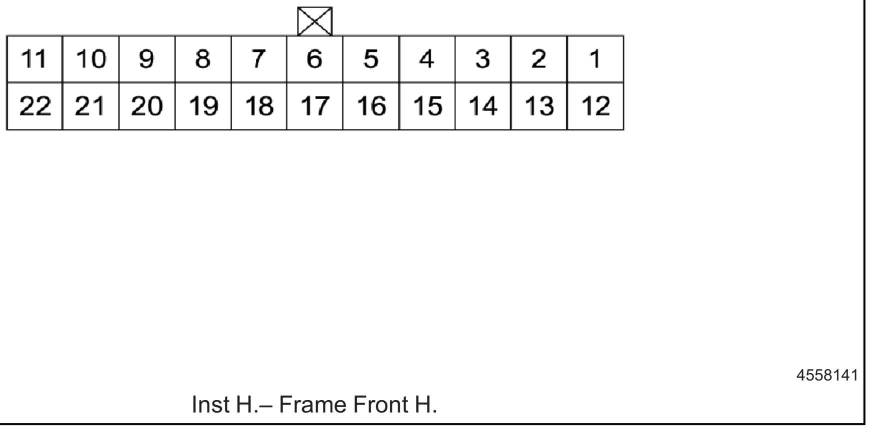
No.	Connector Face
H-32 Black	 1 2 3 4 5 6 006-116 4558109 Inst H.– Door (RH) H.
H-45 White	 2 1 6 5 4 3 006-118 4558101 Inst H.– Roof H.

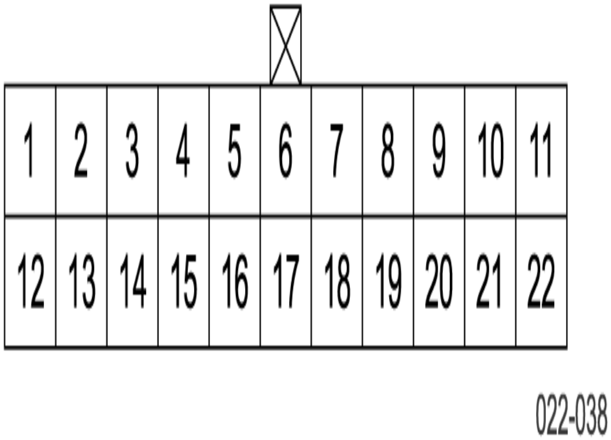
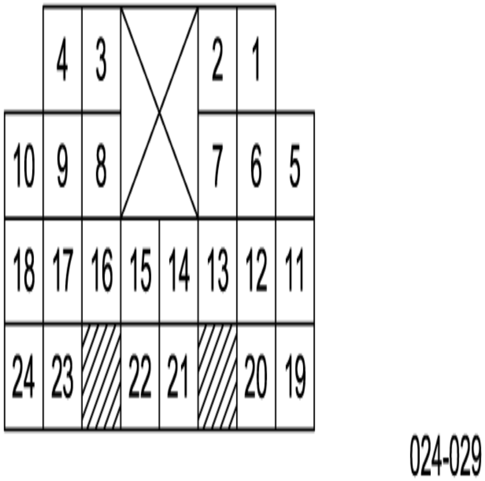
No.	Connector Face
H-45 White	 1 2 3 4 5 6 006-116 4558109 Inst H.– Roof H.
H-49 (Gray)	 3 2 1 6 5 4 006-117 4558115 Floor (LH) H.– RR Door (LH) H.

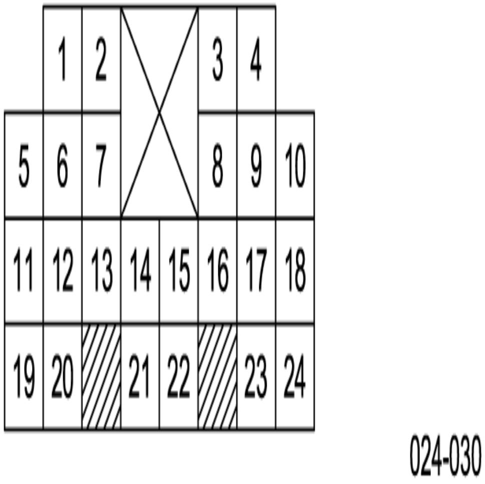
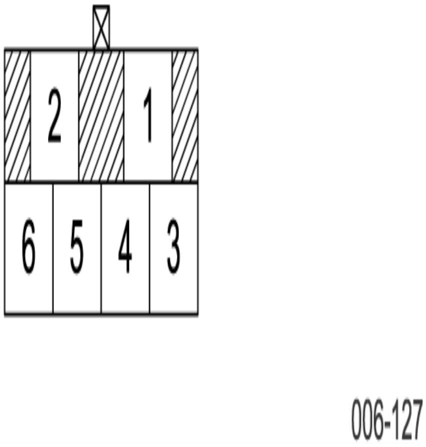
No.	Connector Face
H-49 (Gray)	 1 2 3 4 5 6 006-115 4557750 Floor (LH) H.– RR Door (LH) H.
H-51 (Gray)	 3 2 1 6 5 4 006-117 4558115 Floor (RH) H.– RR Door (RH) H.

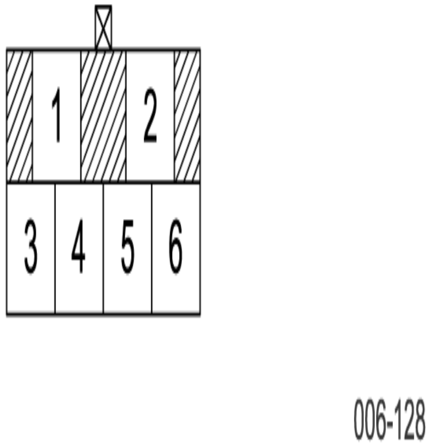
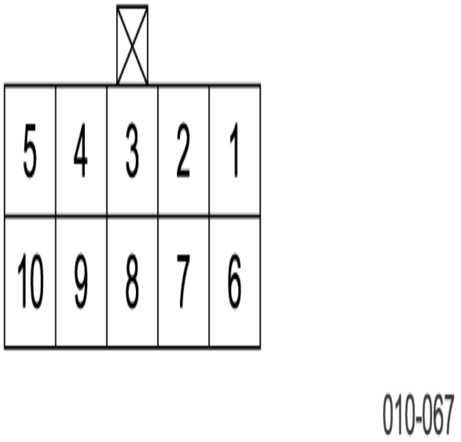
No.	Connector Face
H-51 (Gray)	 1 2 3 4 5 6 006-115 4557750 Floor (RH) H.– RR Door (RH) H.
H-52 Black	 4 3 2 1 8 7 6 5 12 11 10 9 16 15 14 13 016-090 4558121 Frame Front H.– Engine1 H.

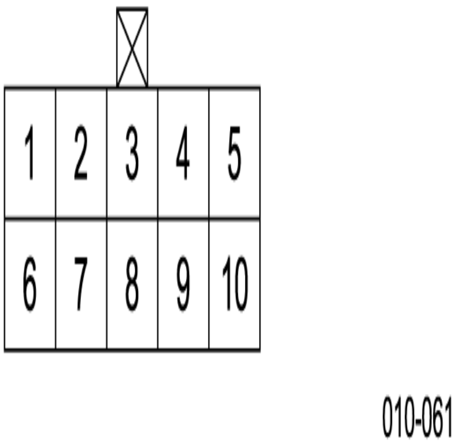
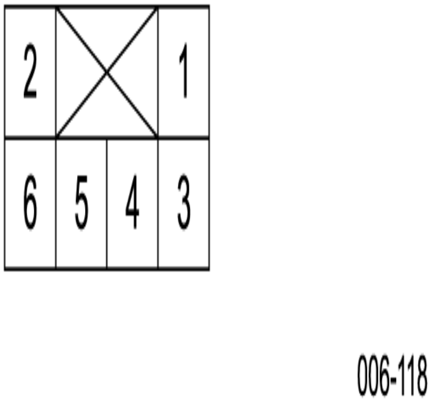
No.	Connector Face
H-52 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 016-086 4558125 Frame Front H.– Engine1 H.
H-66 Black	 4 3 2 1 8 7 6 5 008-079 4558131 Frame Rear H.– Rear Combi H.

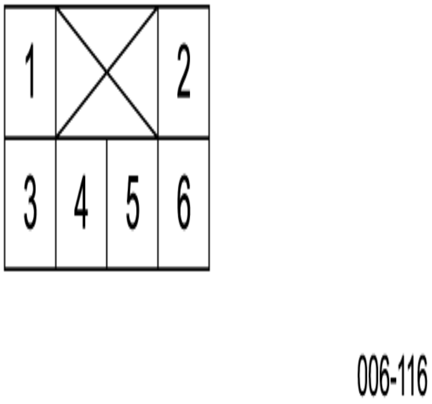
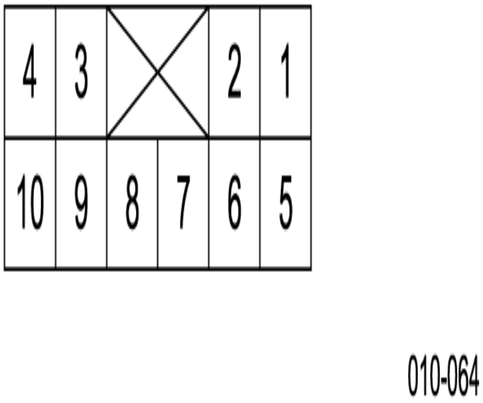
No.	Connector Face
H-66 Black	 1 2 3 4 5 6 7 8 008-076 4557806 Frame Rear H.– Rear Combi H.
H-80 Black	 11 10 9 8 7 6 5 4 3 2 1 22 21 20 19 18 17 16 15 14 13 12 4558141 Inst H.– Frame Front H.

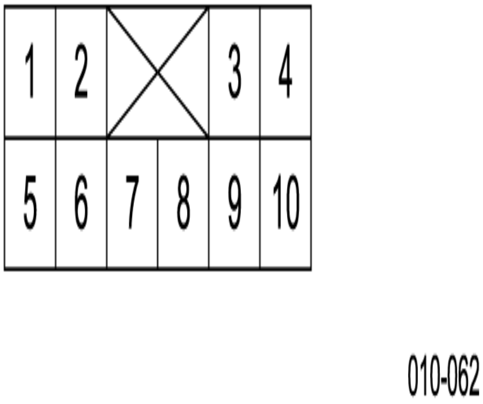
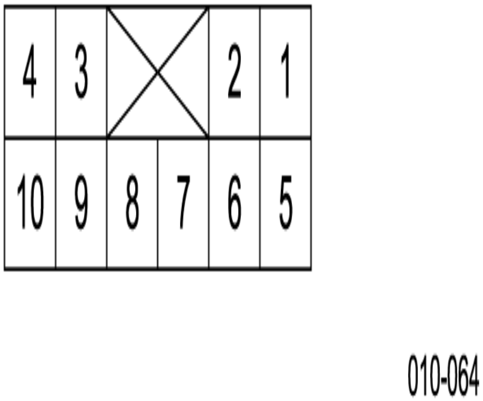
No.	Connector Face
H-80 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 022-038 4558149 Inst H. – Frame Front H.
H-81 Green	 4 3 2 1 10 9 8 7 6 5 18 17 16 15 14 13 12 11 24 23 22 21 20 19 024-029 4558152 Inst H.– Frame Front H.

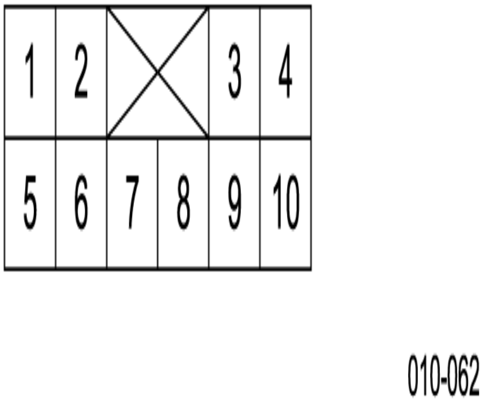
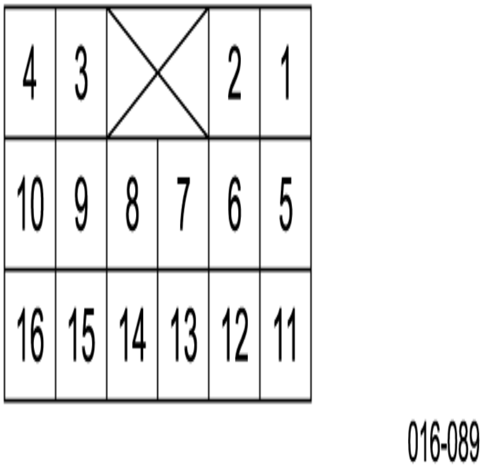
No.	Connector Face
H-81 Green	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 024-030 4558165 Inst H.– Frame Front H.
H-82 Gray	 2 1 6 5 4 3 006-127 4558168 Inst H.– Frame Front H.

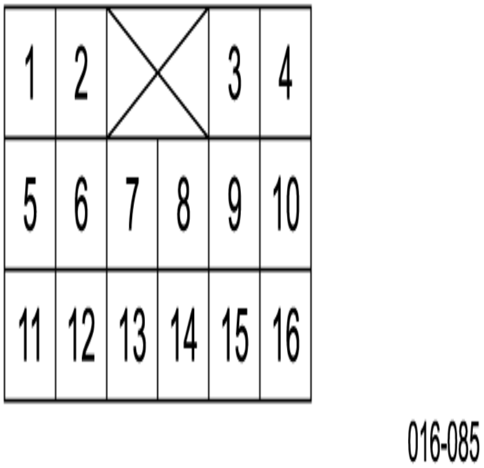
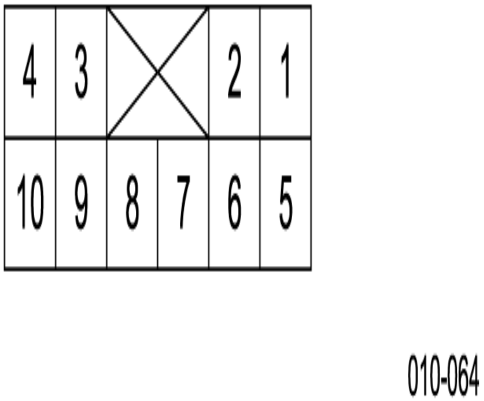
No.	Connector Face
H-82 Gray	 1 2 3 4 5 6 006-128 4558174 Inst H.– Frame Front H.
H-83 White	 5 4 3 2 1 10 9 8 7 6 010-067 4558177 Inst H. – Frame Front H.

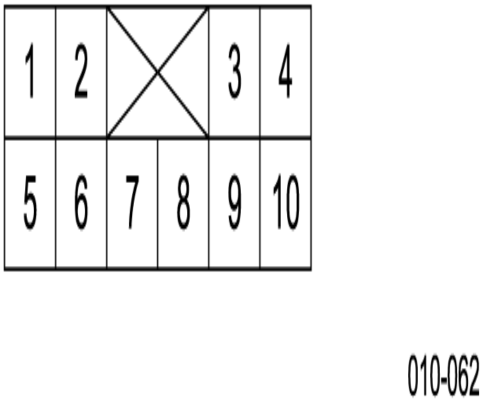
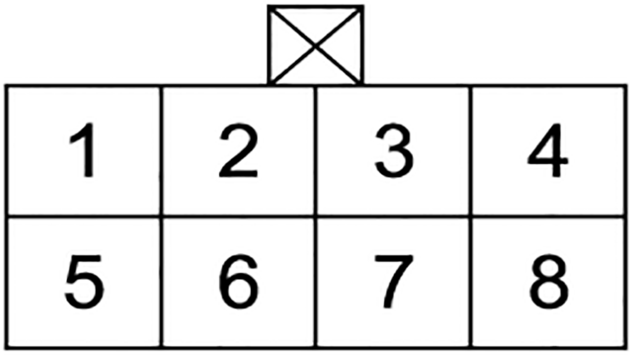
No.	Connector Face
H-83 White	 1 2 3 4 5 6 7 8 9 10 010-061 4558178 Inst H. – Frame Front H.
H-85 Black	 2 1 6 5 4 3 006-118 4558101 Inst H.– Floor (LH) H.

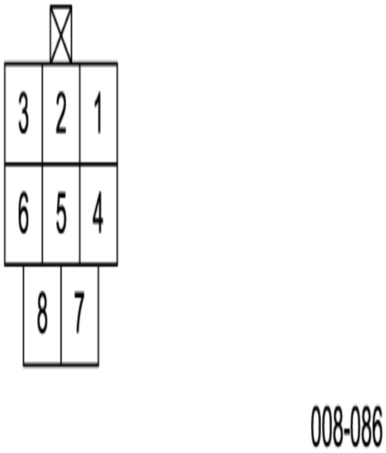
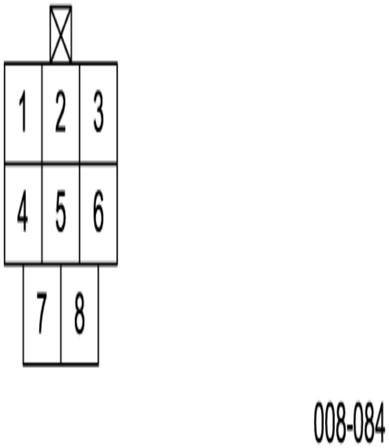
No.	Connector Face
H-85 Black	 1 2 3 4 5 6 006-116 4558109 Inst H.– Floor (LH) H.
H-86 White	 4 3 2 1 10 9 8 7 6 5 010-064 4558183 Inst H.– Floor (RH) H.

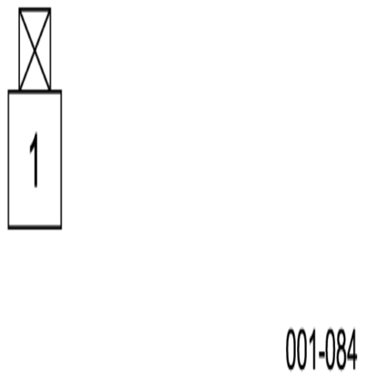
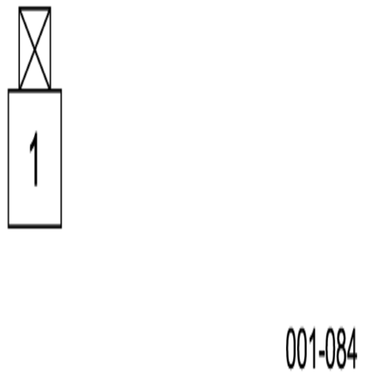
No.	Connector Face
H-86 White	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 Inst H.– Floor (RH) H.
H-87 Green	 4 3 2 1 10 9 8 7 6 5 010-064 4558183 Inst H.– Door (RH) H.

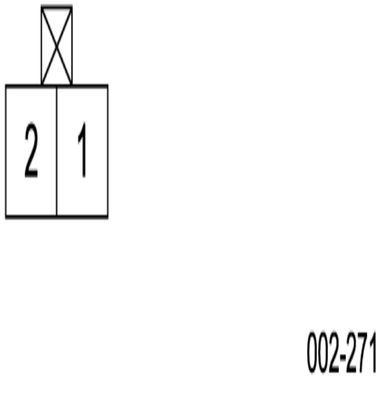
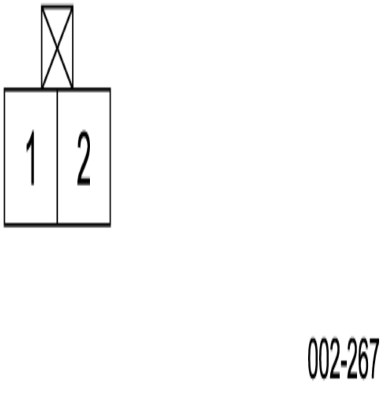
No.	Connector Face
H-87 Green	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 Inst H.– Door (RH) H.
H-92 Black	 4 3 2 1 10 9 8 7 6 5 16 15 14 13 12 11 016-089 4558186 Inst H.– Door (LH) H.

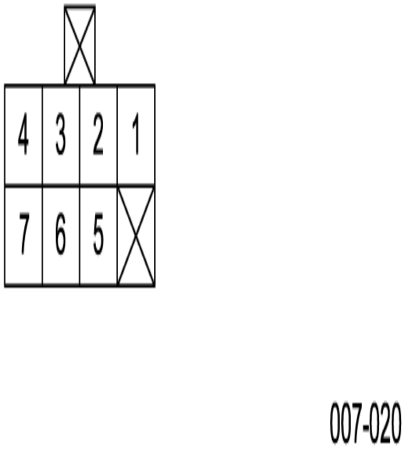
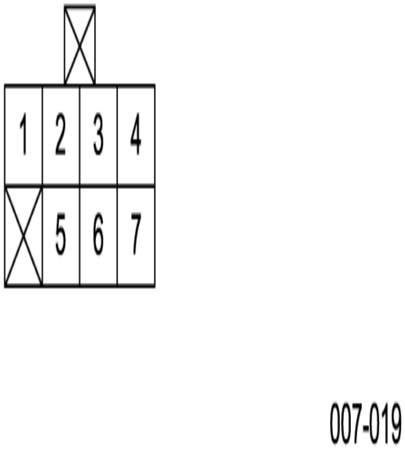
No.	Connector Face
H-92 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 016-085 4558187 Inst H.– Door (LH) H.
H-93 White	 4 3 2 1 10 9 8 7 6 5 010-064 4558183 Inst H.– Floor (LH) H. MT AT

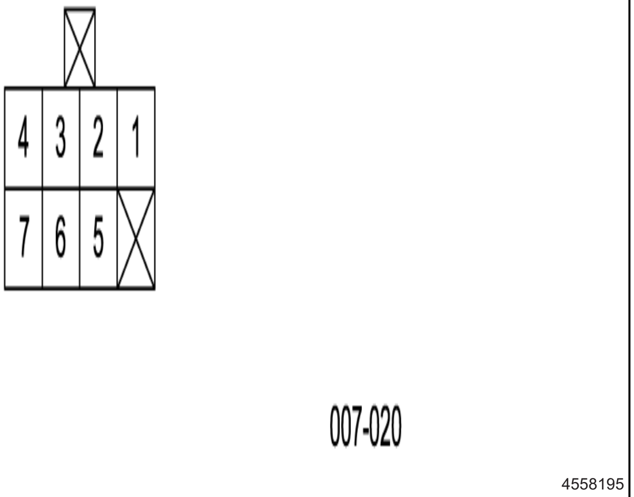
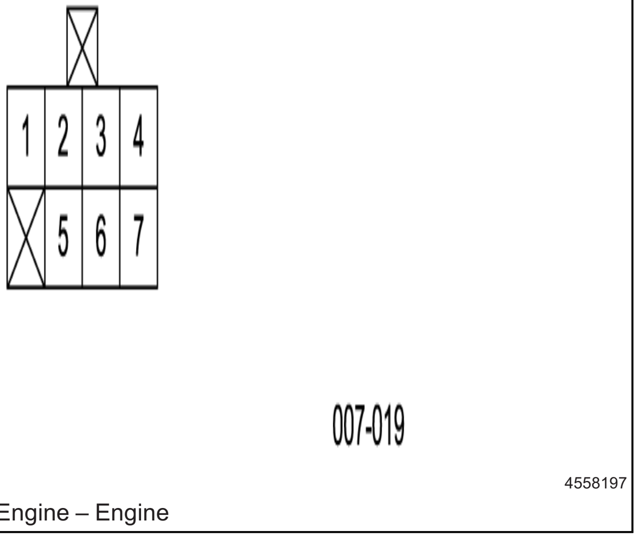
No.	Connector Face
H-93 White	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 Inst H.– Floor (LH) H. MT AT
H-168 Black	 4498005 Engine H. – Glow H.

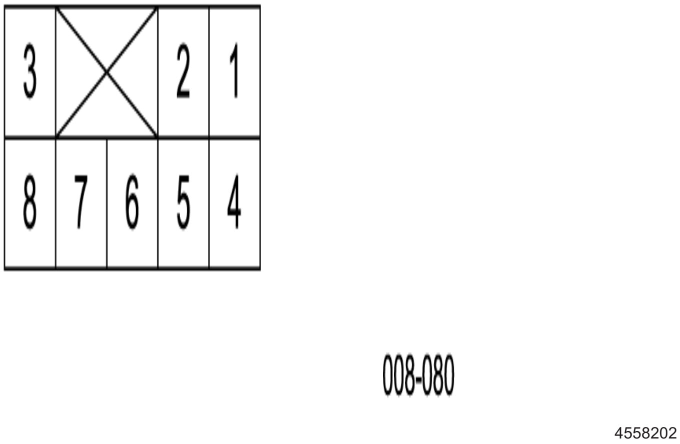
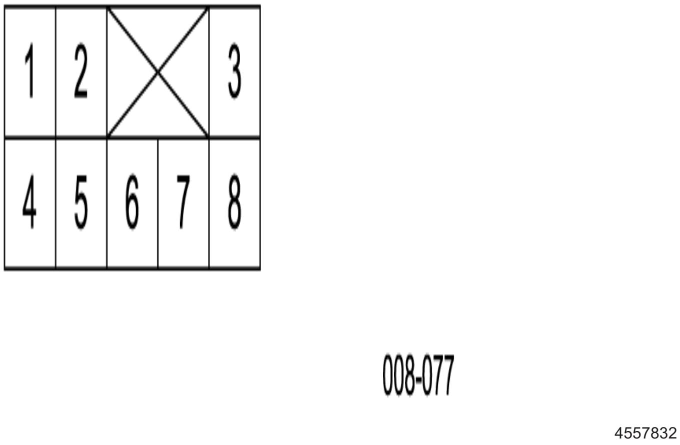
No.	Connector Face
H-109 (Black)	 3 2 1 6 5 4 8 7 008-086 4558188 Engine – Frame
H-109 (Black)	 1 2 3 4 5 6 7 8 008-084 4558189 Engine – Frame

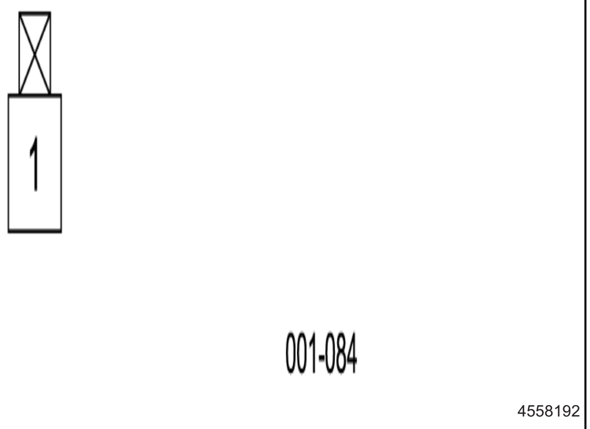
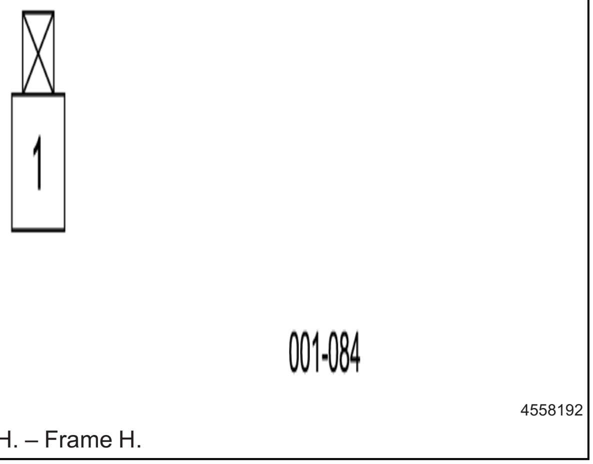
No.	Connector Face
H-110 (Gray)	 4558192 Starter – Frame
H-110 (White)	 4558192 Starter – Frame

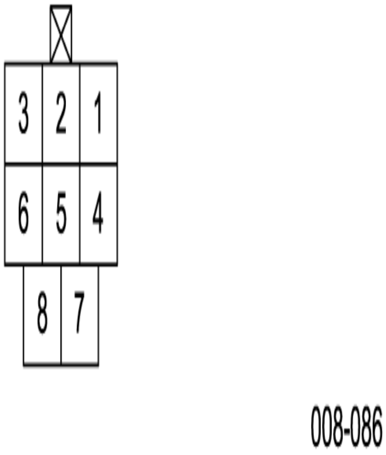
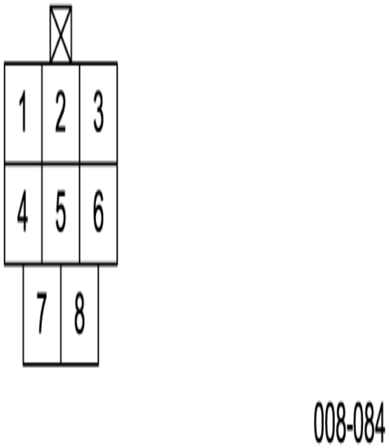
No.	Connector Face
H-111 (Gray)	 2 1 002-271 4557993 Starter – Frame
H-111 (White)	 1 2 002-267 4557710 Starter – Frame

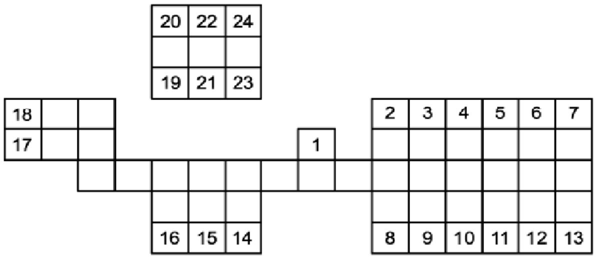
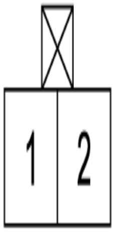
No.	Connector Face
H-112 (Gray)	 4 3 2 1 7 6 5 007-020 4558195 Engine – Engine
H-112 (Gray)	 1 2 3 4 5 6 7 007-019 4558197 Engine – Engine

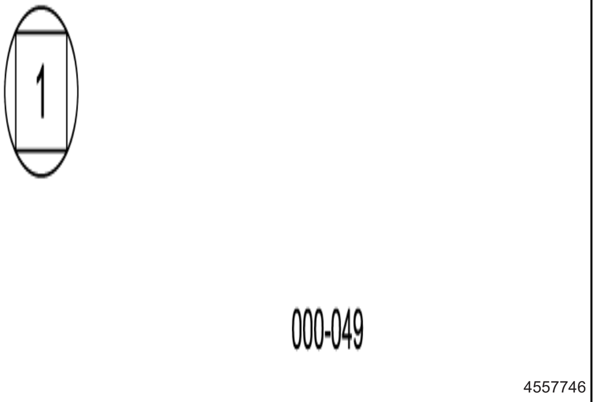
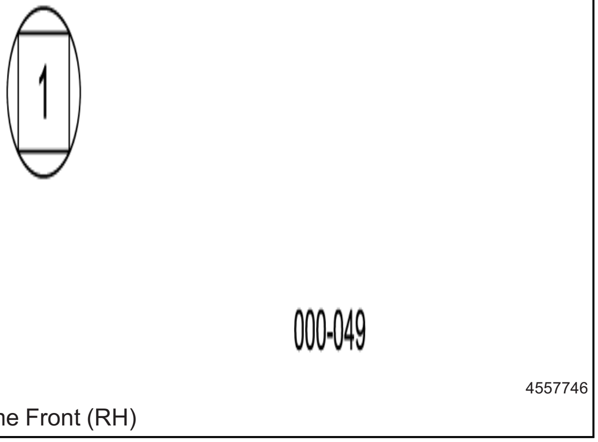
No.	Connector Face
H-113 (Gray)	 4 3 2 1 7 6 5 007-020 4558195 Engine – Engine
H-113 (Gray)	 1 2 3 4 5 6 7 007-019 4558197 Engine – Engine

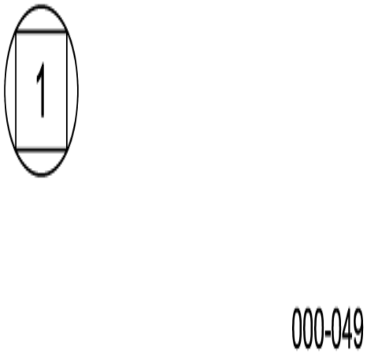
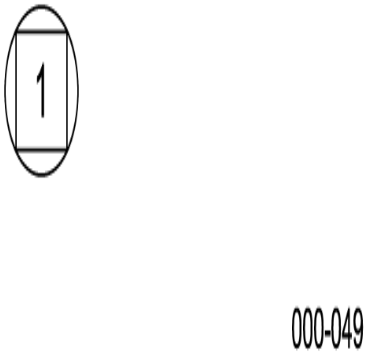
No.	Connector Face
H-114 (White)	 3 2 1 8 7 6 5 4 008-080 4558202 Inst – Floor
H-114 (White)	 1 2 3 4 5 6 7 8 008-077 4557832 Inst – Floor

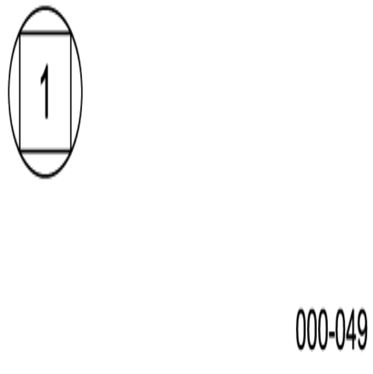
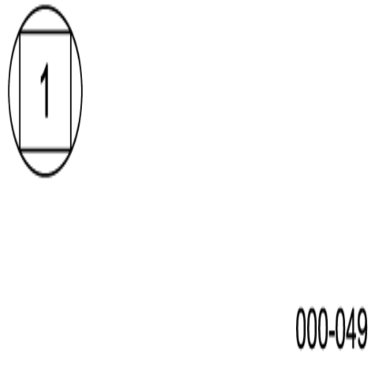
No.	Connector Face
H-170 Black	 1 001-084 4558192 INST H. – Frame H.
H-170 Black	 1 001-084 4558192 INST H. – Frame H.

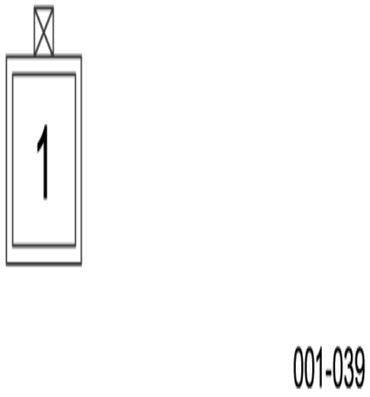
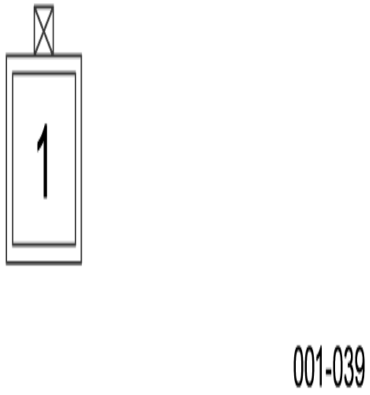
No.	Connector Face
H-172 Black	 3 2 1 6 5 4 8 7 008-086 4558188 Frame H. – Towing H.
H-172 Black	 1 2 3 4 5 6 7 8 008-084 4558189 Frame H. – Towing H.

No.	Connector Face
J-2	 20 22 24 19 21 23 18 17 1 2 3 4 5 6 7 16 15 14 8 9 10 11 12 13 4558208 Relay Box
J-4 Gray	 002-267 4557710 Condenser Fan Motor

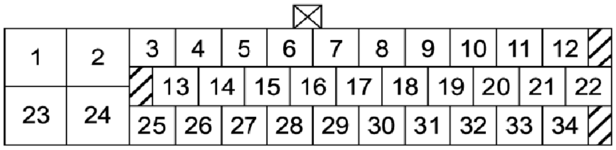
No.	Connector Face
J-7	 1 000-049 4557746 Frame Front (RH)
J-8	 1 000-049 4557746 Frame Front (RH)

No.	Connector Face
J-9	 4557746 Frame Center (RH)
J-10	 4557746 Frame Center (RH)

No.	Connector Face
J-11	 1 000-049 4557746 Frame Front (RH)
J-12	 1 000-049 4557746 Frame Center (RH)

No.	Connector Face
J-19 White	 4557729 Horn (LH)
J-20 White	 4557729 Horn (RH)

<table>
<tr><th>No.</th><th>Connector Face</th></tr>
<tr><td>J-22
Black</td><td>

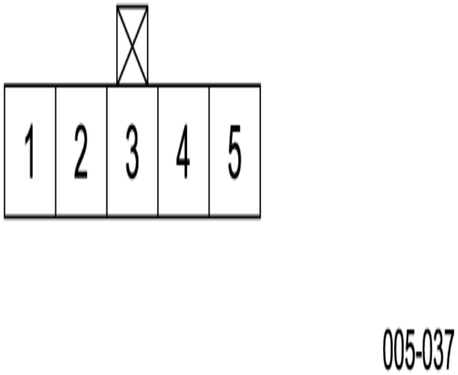


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34

4558211

Electronic Hydraulic Control Unit (EHCU)

</td></tr>
<tr><td>J-38
Black</td><td>

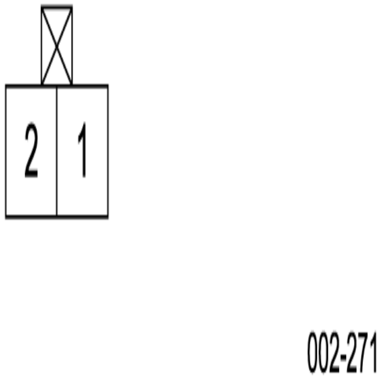
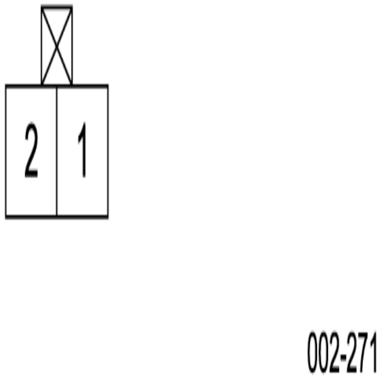


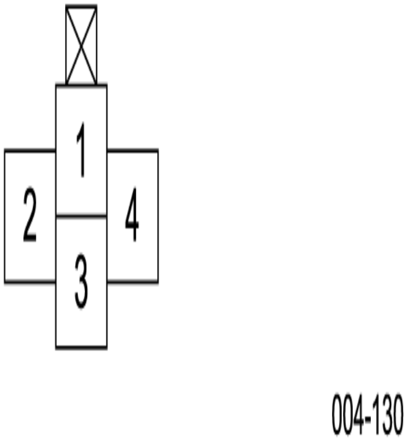
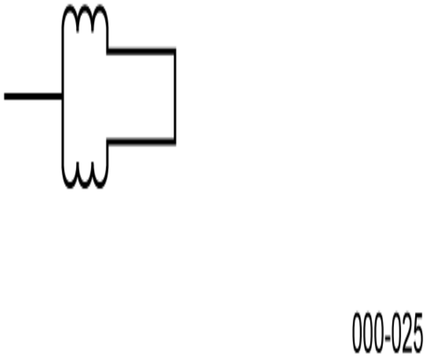
1
2
3
4
5
005-037

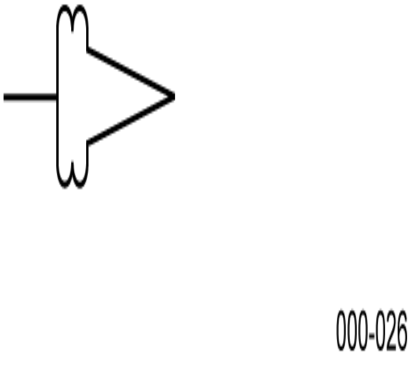
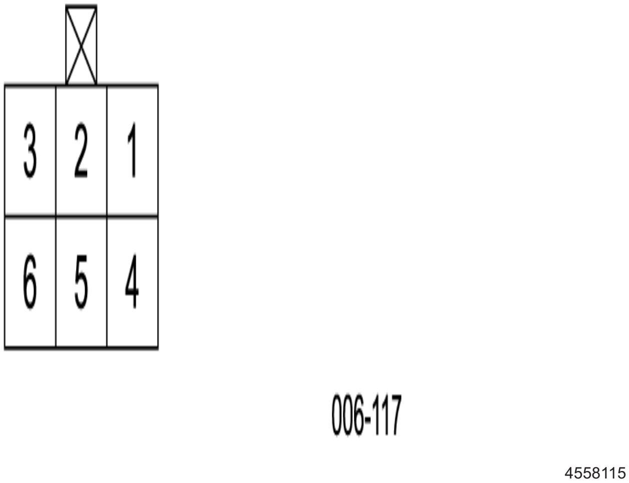
4557804

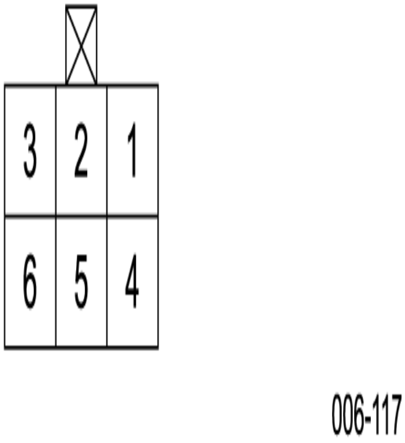
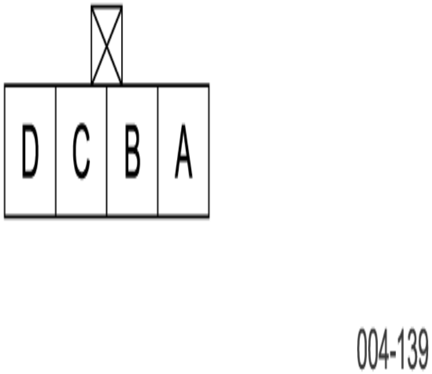
MAF and IAT Sensor

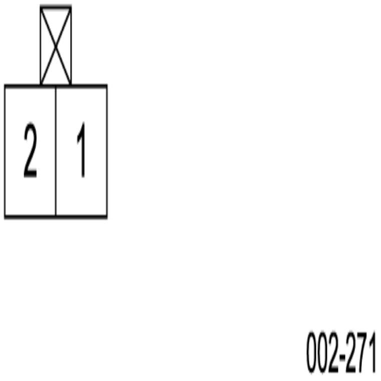
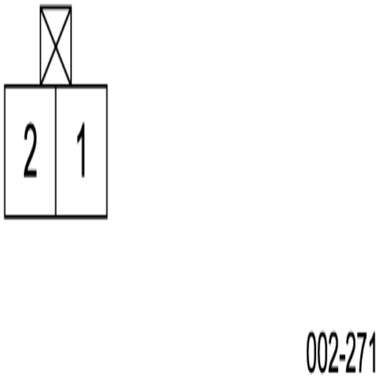
</td></tr>
</table>

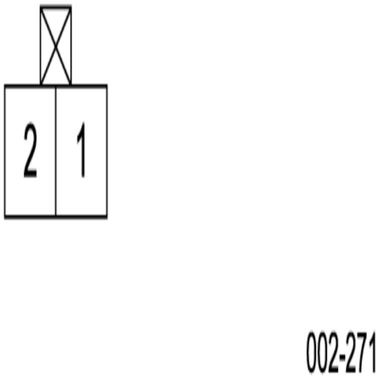
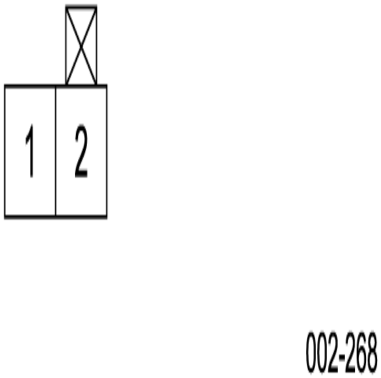
No.	Connector Face
J-44 Black	 4557993 Wheel Speed Sensor Front Left
J-45 Black	 4557993 Wheel Speed Sensor Front Right

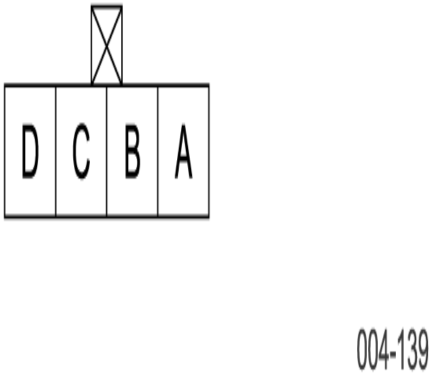
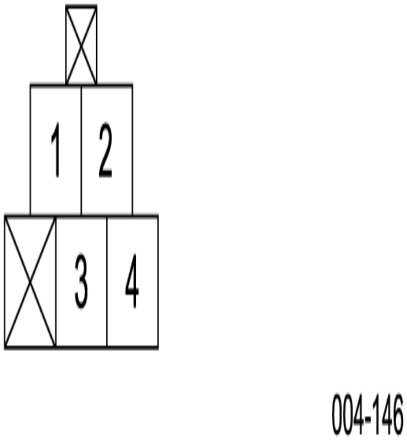
No.	Connector Face
J-55 White	 4558217 Triple Pressure Switch
J-71 Green	 4558219 License Plate Light (A)

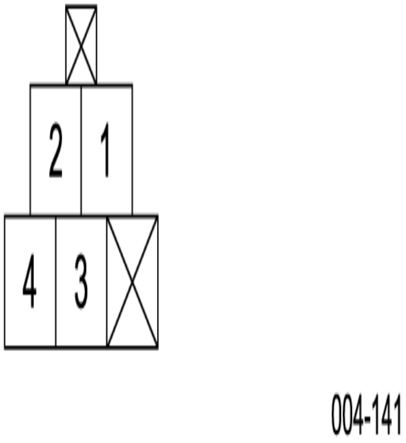
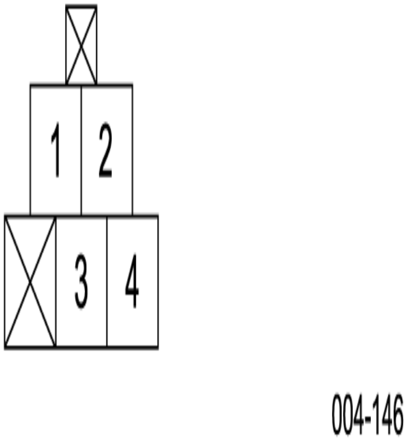
No.	Connector Face
J-72 Green	 000-026 4558220 License Plate Light (B)
J-73 White	 3 2 1 6 5 4 006-117 4558115 RR Combination Light (LH)

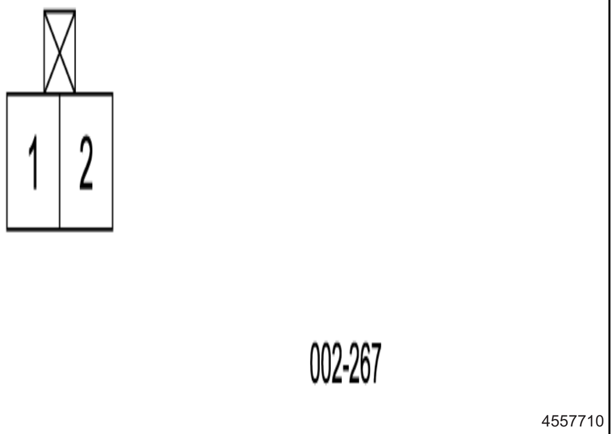
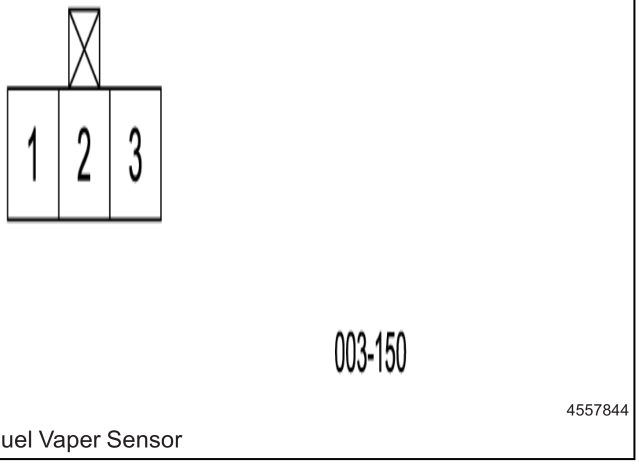
No.	Connector Face
J-74 White	 3 2 1 6 5 4 006-117 4558115 RR Combination Light (RH)
J-104 Black	 D C B A 004-139 4558223 Front Manufacture Connector A

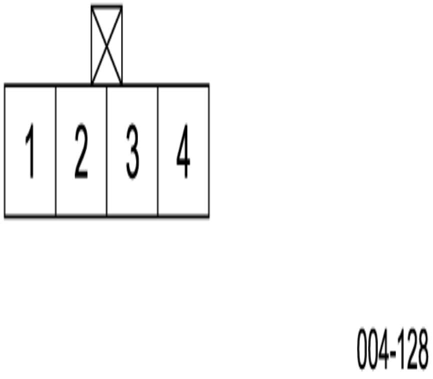
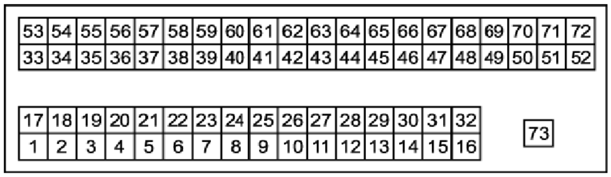
No.	Connector Face
J-107 White	 4557993 Wheel Speed Sensor Rear Right
J-108 Black	 4557993 Wheel Speed Sensor Rear Left

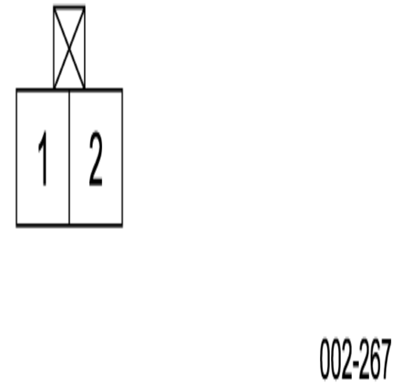
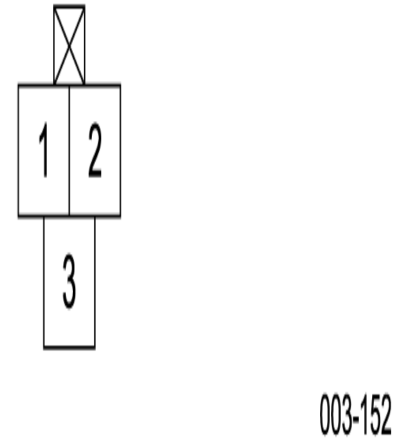
No.	Connector Face
J-111 Black	 4557993 Back Buzzer (Upfitter Install)
J-114	 4557737 Diode 2

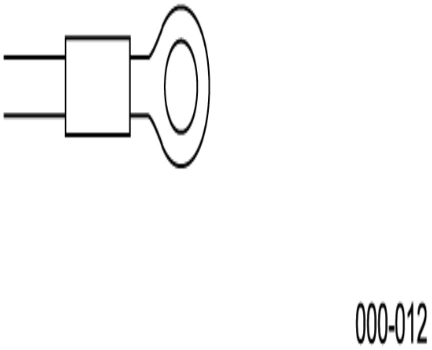
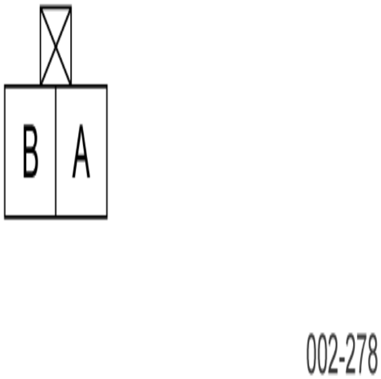
No.	Connector Face
J-118 Black	 D C B A 004-139 4558223 Rear Manufacture Connector
J-125 (Gray)	 1 2 3 4 004-146 4558231 RR Heater Sensor (LH)

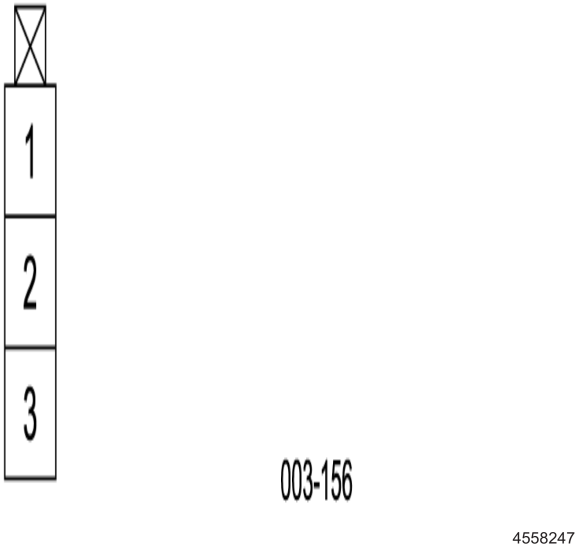
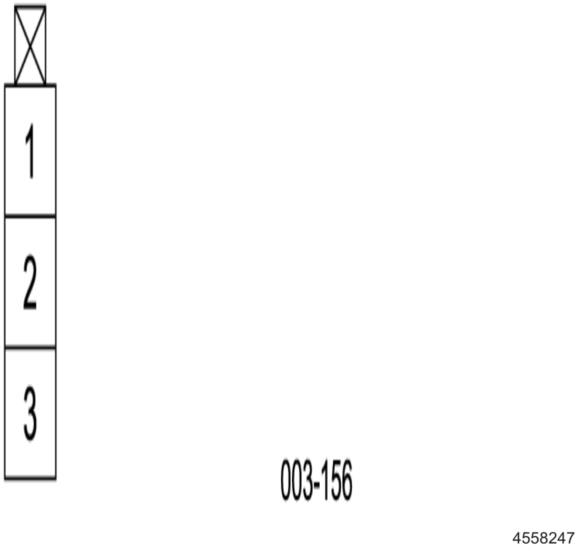
No.	Connector Face
J-126 (Black)	 2 1 4 3 004-141 4558031 Front Heater Sensor (RH)
J-127 (Gray)	 1 2 3 4 004-146 4558231 Rear Heater Sensor (RH)

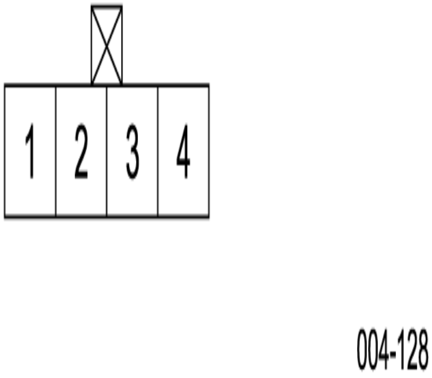
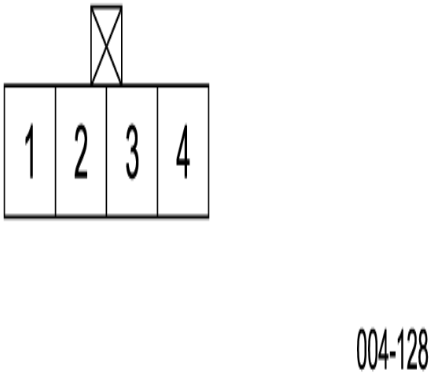
No.	Connector Face
J-128 (Red)	 1 2 002-267 4557710 Fuel Ventilation Solenoid
J-129 (Black)	 1 2 3 003-150 4557844 Fuel Vaper Sensor

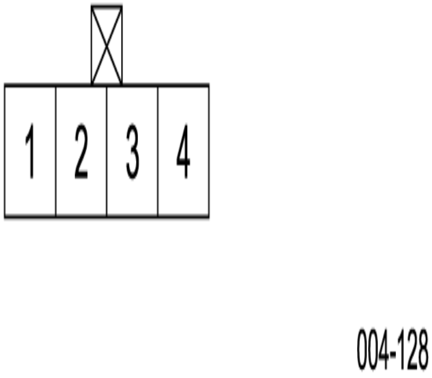
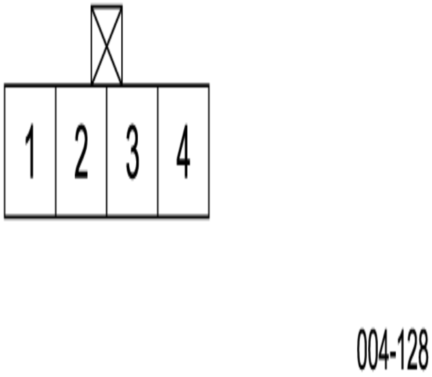
No.	Connector Face
J-130 (Black)	 1 2 3 4 004-128 4557940 Fuel Pump
J-131 (Black)	 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 73 4558235 Powertrain Control Module (PCM).A

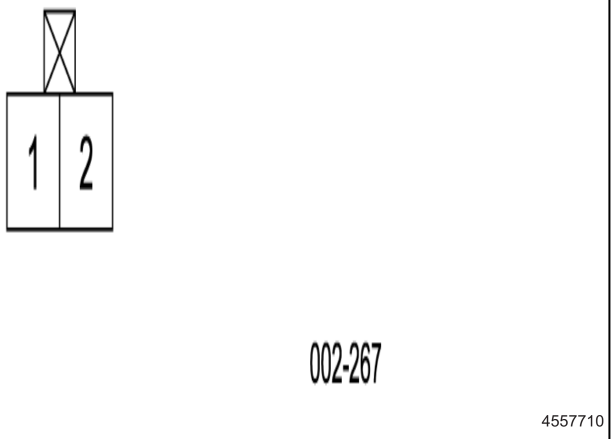
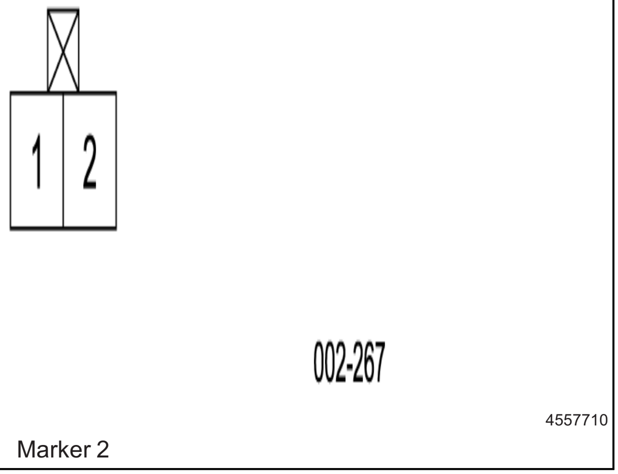
No.	Connector Face
J-132 (Black)	 4557710 Terminator
J-133 (Black)	 4558239 A/C Pressure Sensor

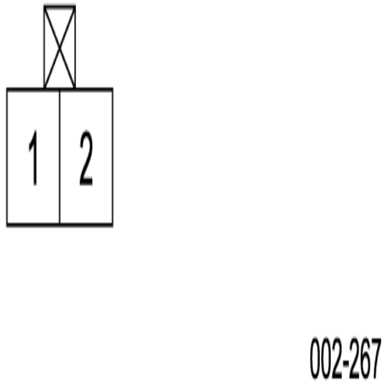
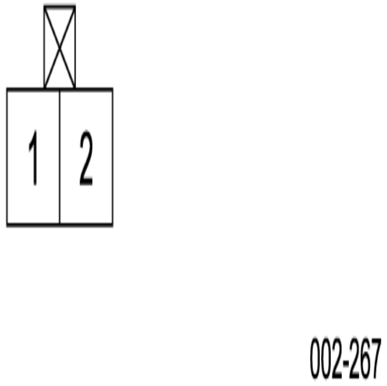
No.	Connector Face
J-134	 4558030 AC Generator
J-137 Black	 4558244 Front Manufacture Connector.B

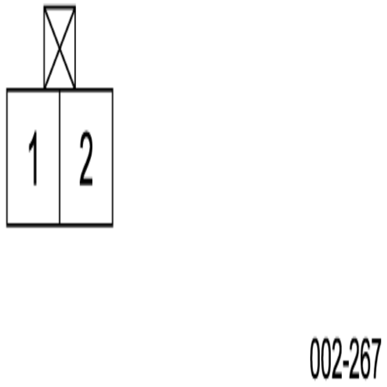
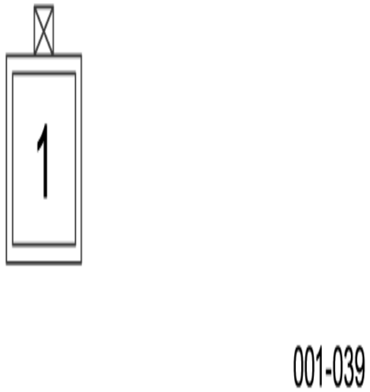
No.	Connector Face
L-4 White	 1 2 3 003-156 4558247 Dome Light
L-5 White	 1 2 3 003-156 4558247 Rear Dome Light

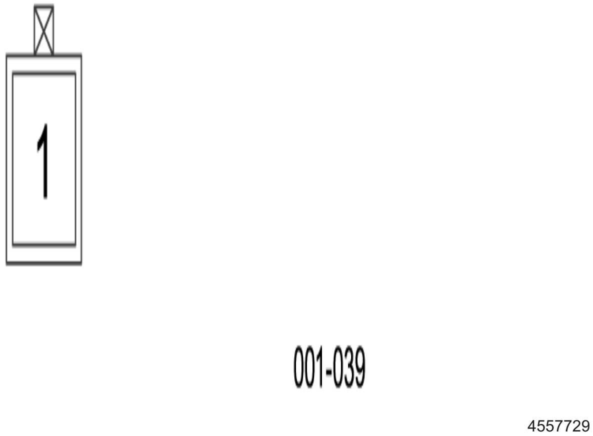
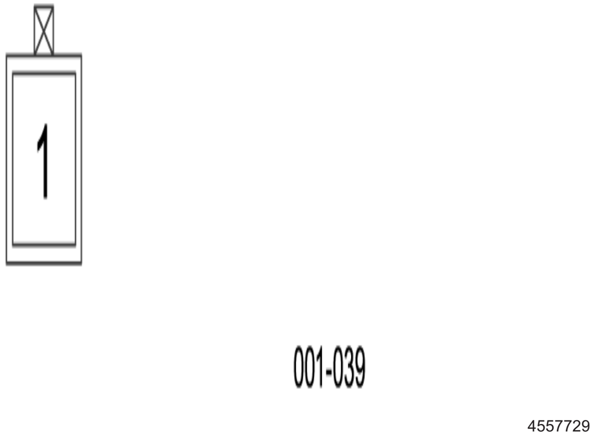
No.	Connector Face
L-20 White	 1 2 3 4 004-128 4557940 J/C 3
L-21 White	 1 2 3 4 004-128 4557940 J/C 4

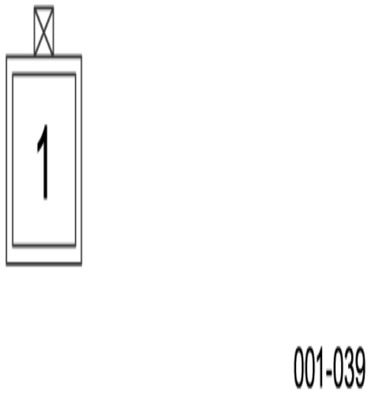
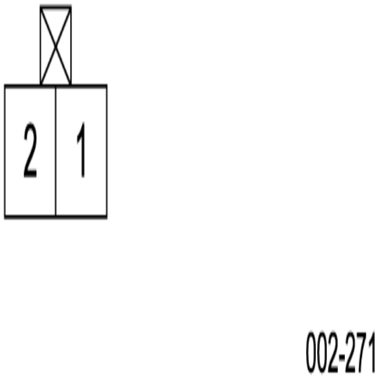
No.	Connector Face
L-22 White	 1 2 3 4 004-128 4557940 J/C 5
L-23 White	 1 2 3 4 004-128 4557940 J/C 7

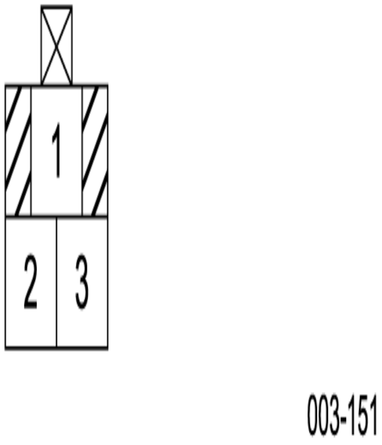
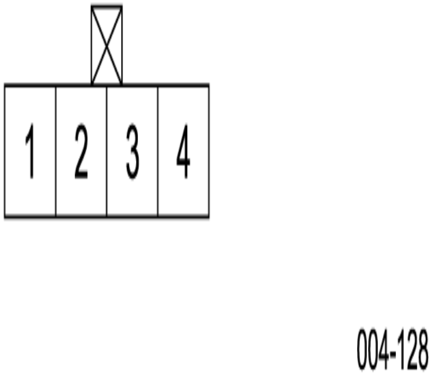
No.	Connector Face
L-24 White	 1 2 002-267 4557710 Marker 1
L-25 White	 1 2 002-267 4557710 Marker 2

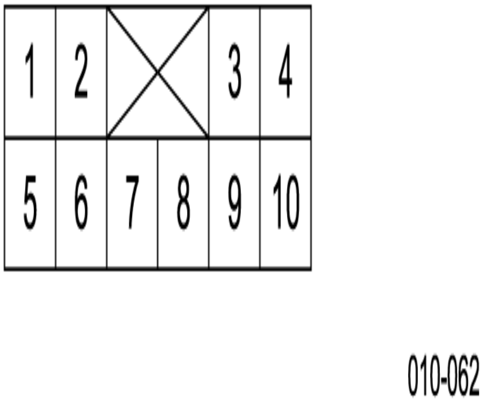
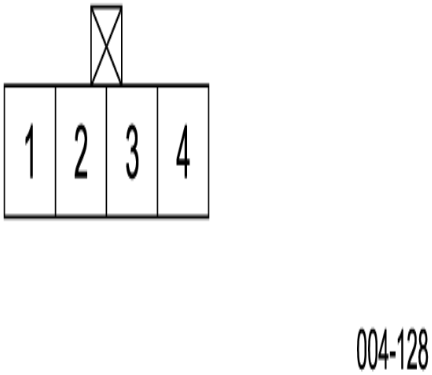
No.	Connector Face
L-26 White	 4557710 Identification Light 1
L-27 White	 4557710 Identification Light 2

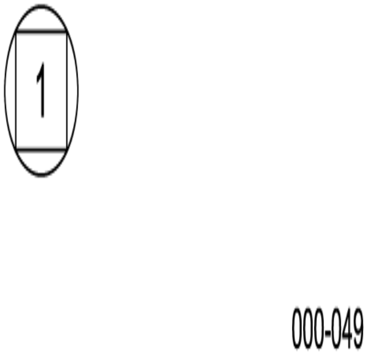
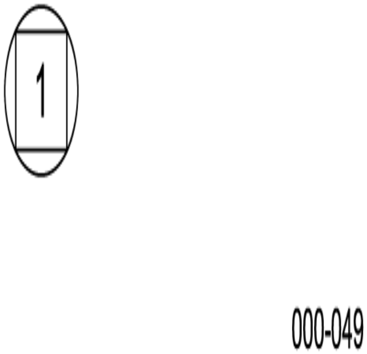
No.	Connector Face
L-28 White	 1 2 002-267 4557710 Identification Light 3
N-8 White	 1 001-039 4557729 Door Switch (RH) (C-Cab)

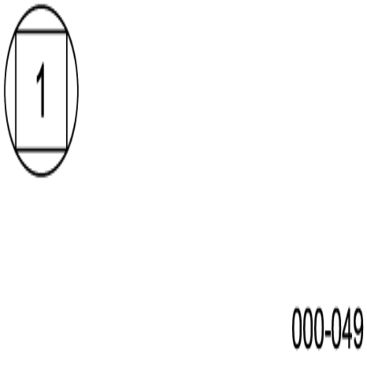
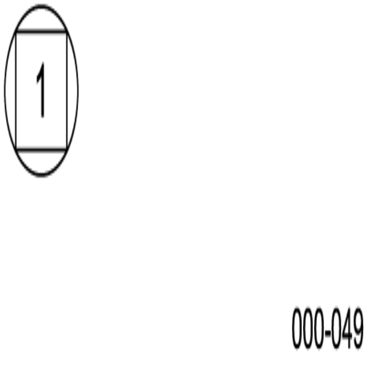
No.	Connector Face
N-9 Black	 1 001-039 4557729 RR Door Switch (LH)
N-10 Black	 1 001-039 4557729 RR Door Switch (RH)

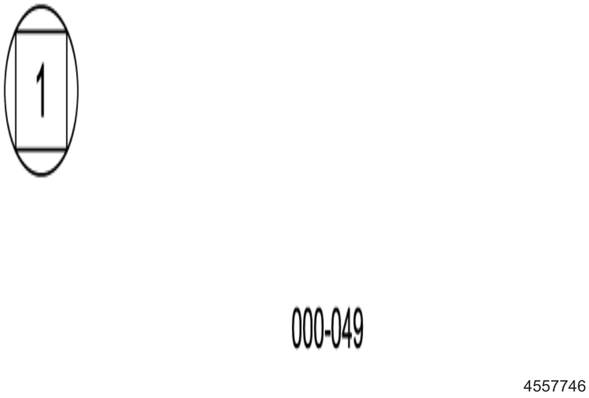
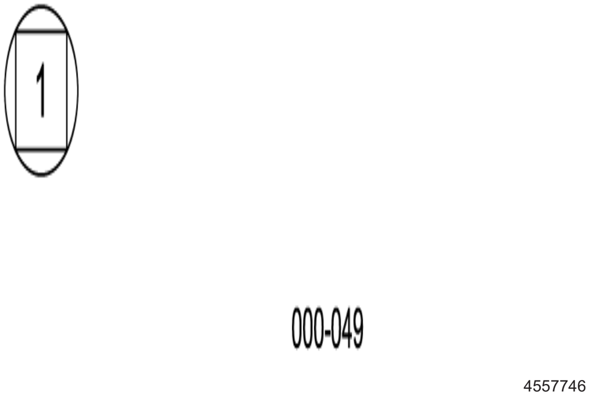
No.	Connector Face
N-12 White	 4557729 Door Switch (LH)
N-14 White	 4557993 Parking Brake Switch

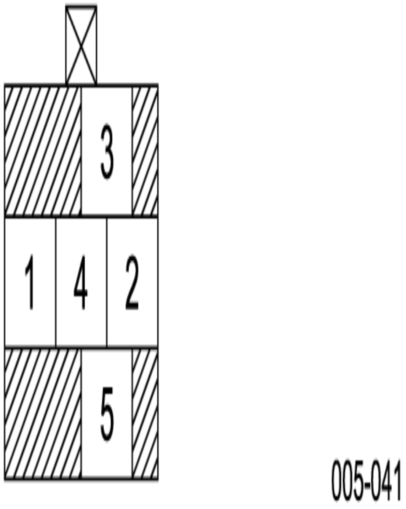
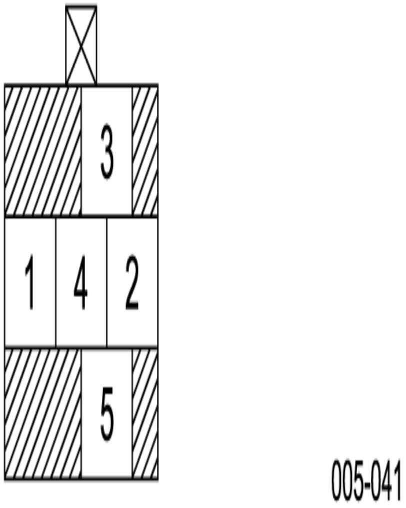
No.	Connector Face
N-31 White	 4558084 Rear Heater
N-32 White	 1 2 3 4 004-128 4557940 J/C-29

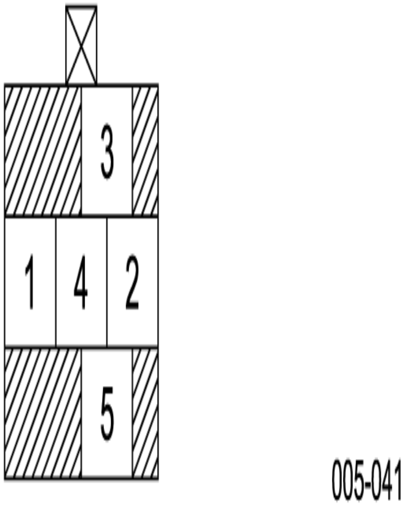
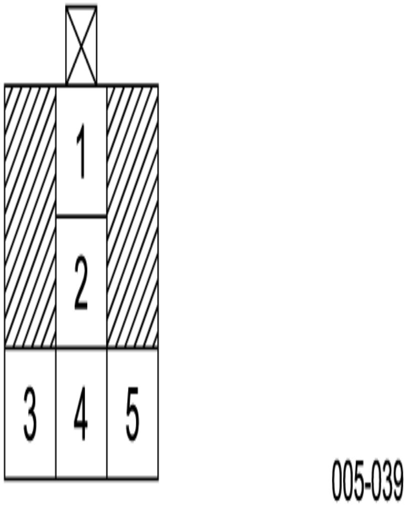
No.	Connector Face
N-33 White	 1 2 3 4 5 6 7 8 9 10 010-062 4557712 Shift Lever Switch .A
N-34 White	 1 2 3 4 004-128 4557940 Shift Lever Switch. B

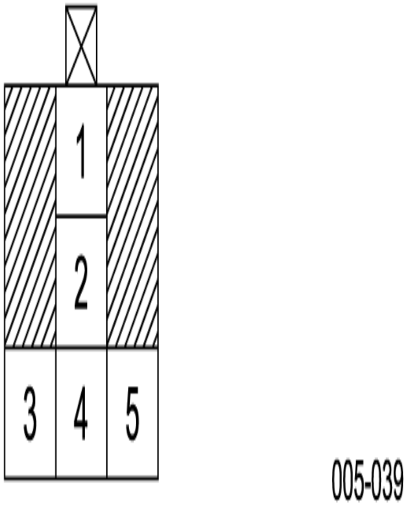
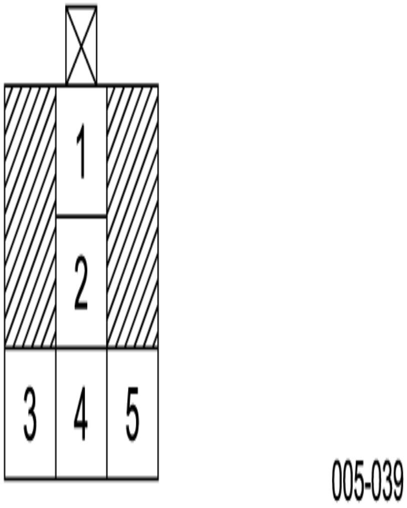
No.	Connector Face
P-1	 4557746 Battery Cable
P-2	 4557746 Battery Cable

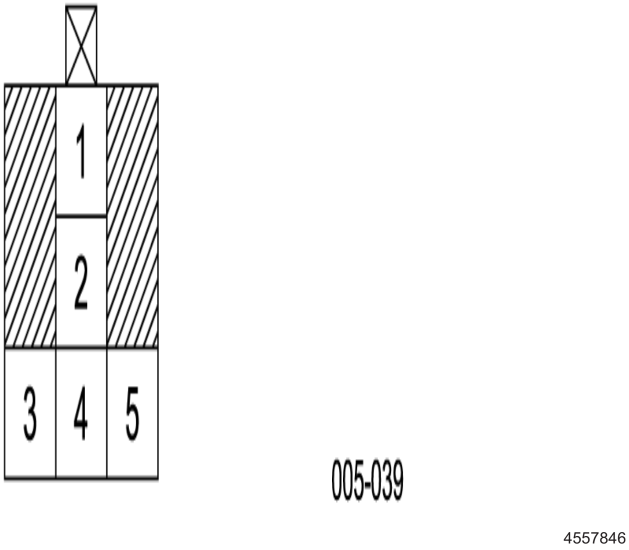
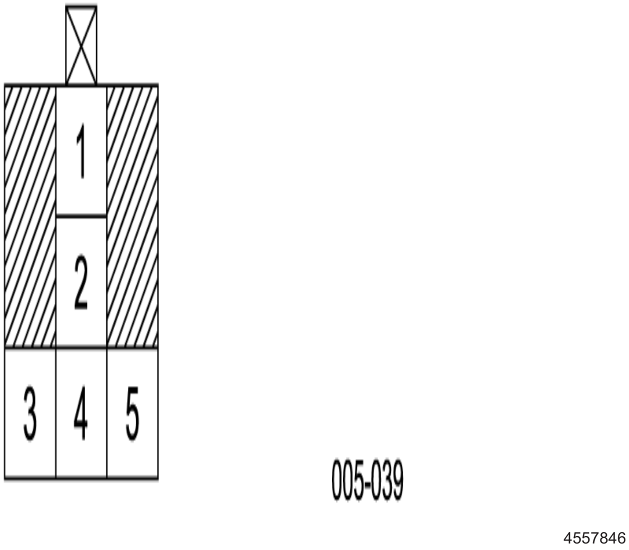
No.	Connector Face
P-3	 1 000-049 4557746 Battery Cable
P-4	 1 000-049 4557746 Battery Cable

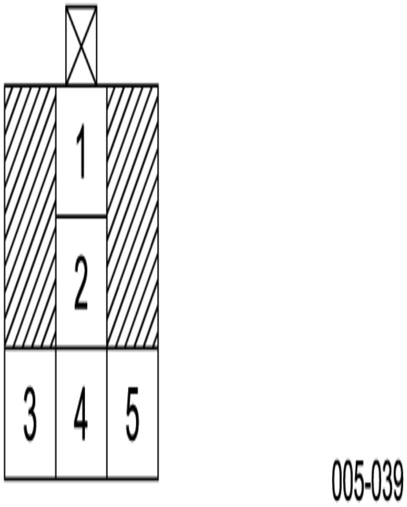
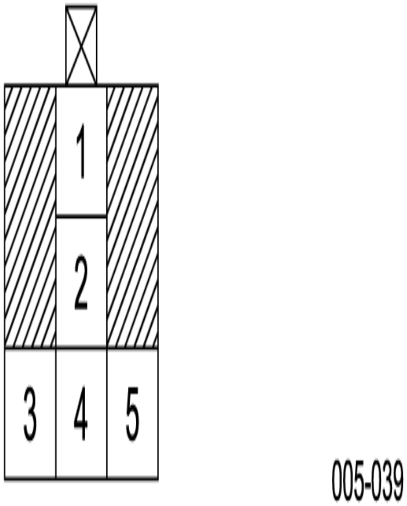
No.	Connector Face
P-5	 1 000-049 4557746 Battery Cable
P-6	 1 000-049 4557746 Battery Cable

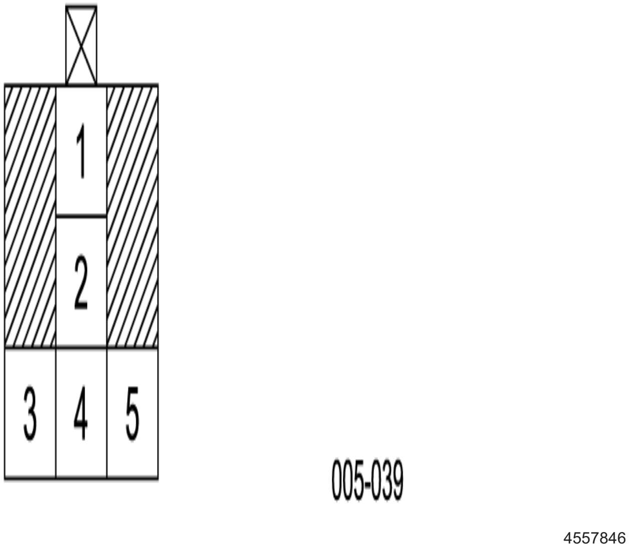
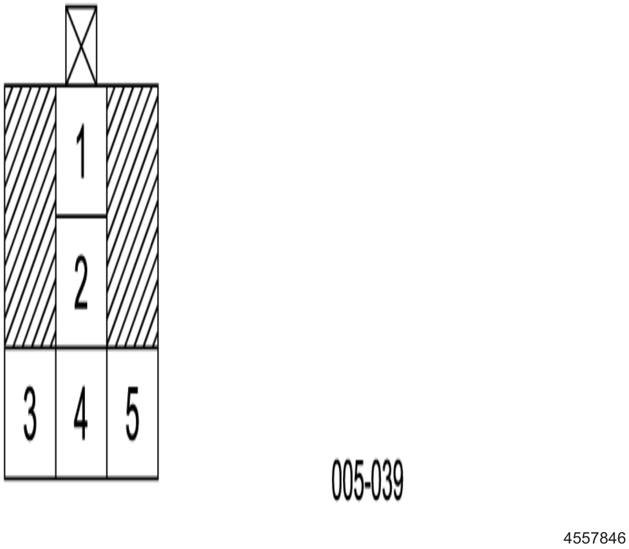
No.	Connector Face
X-1	 3 1 4 2 5 005-041 4558036 Stoplight Relay
X-2	 3 1 4 2 5 005-041 4558036 Daytime Running Light (DRL) Relay

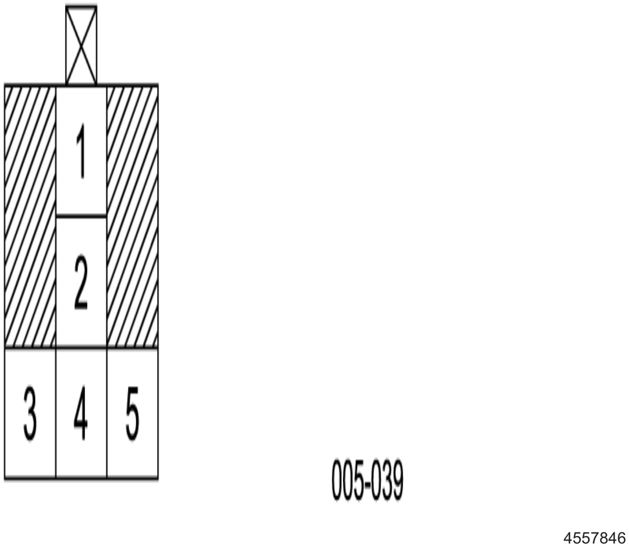
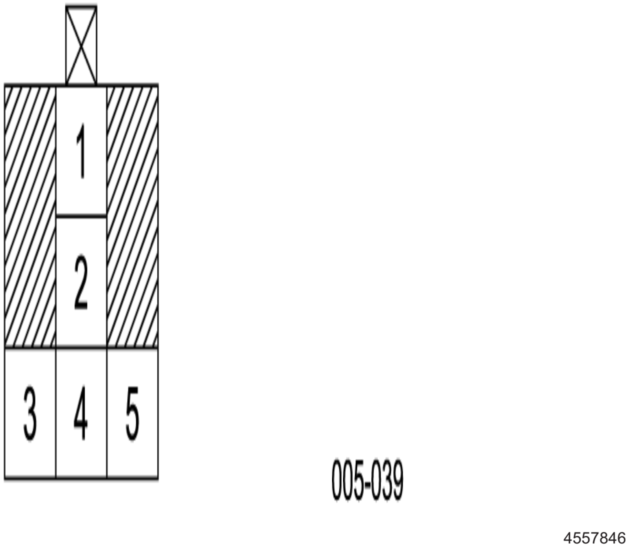
No.	Connector Face
X-3	 3 1 4 2 5 005-041 4558036 Key On Relay
X-4	 1 2 3 4 5 005-039 4557846 TCM Relay

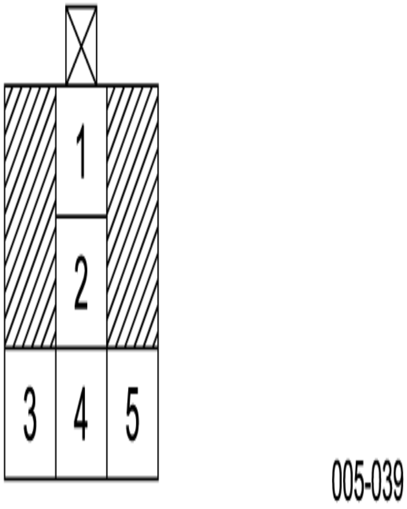
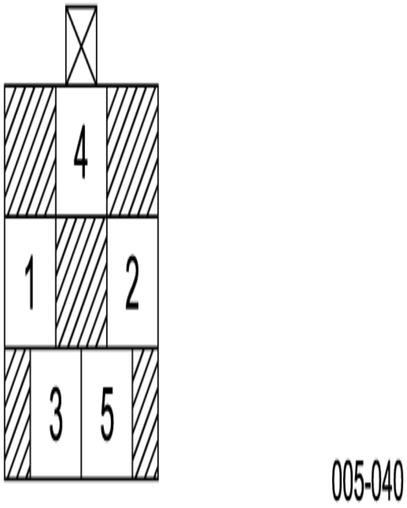
No.	Connector Face
X-5	 1 2 3 4 5 005-039 4557846 P/N Start Relay
X-6	 1 2 3 4 5 005-039 4557846 Wiper Main Relay

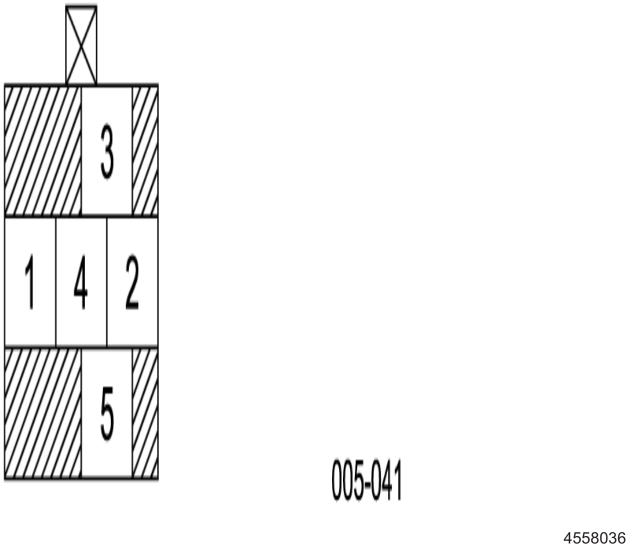
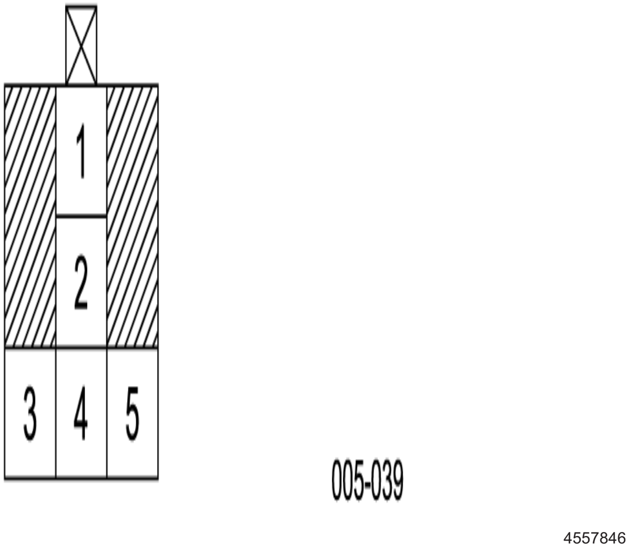
No.	Connector Face
X-7	 1 2 3 4 5 005-039 4557846 Horn Relay
X-8	 1 2 3 4 5 005-039 4557846 Wiper High/Low Relay

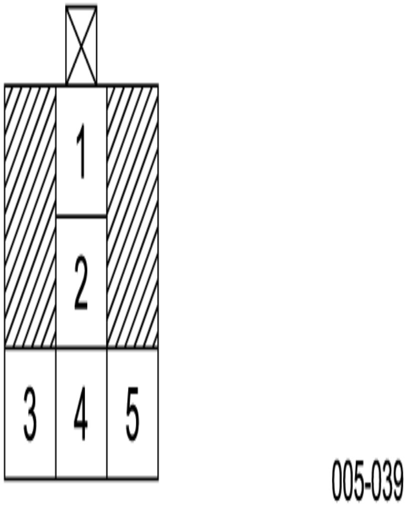
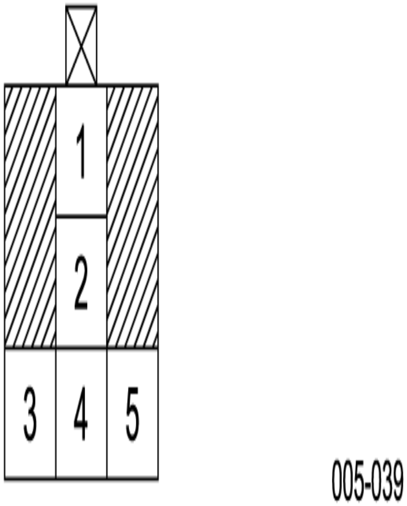
No.	Connector Face
X-10	 1 2 3 4 5 005-039 4557846 Rear Power Window Relay
X-11	 1 2 3 4 5 005-039 4557846 Charge Relay

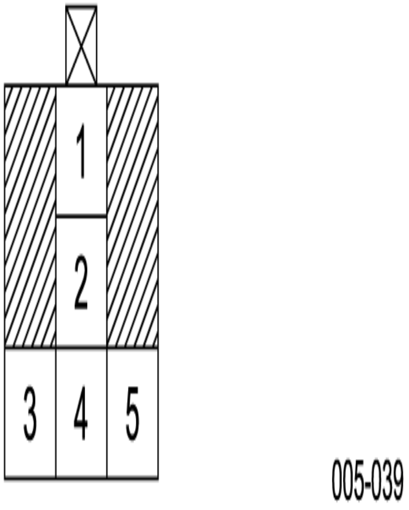
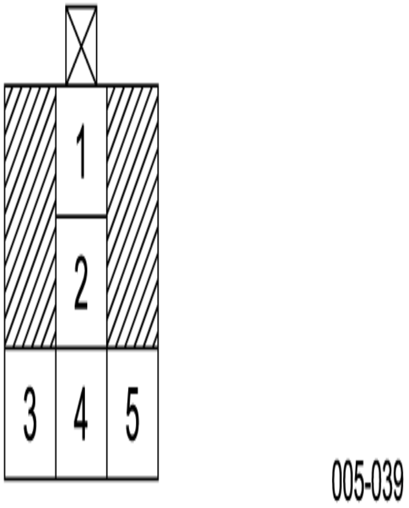
No.	Connector Face
X-12	 1 2 3 4 5 005-039 4557846 Front Power Window Relay
X-13	 1 2 3 4 5 005-039 4557846 Headlight(Low) Relay

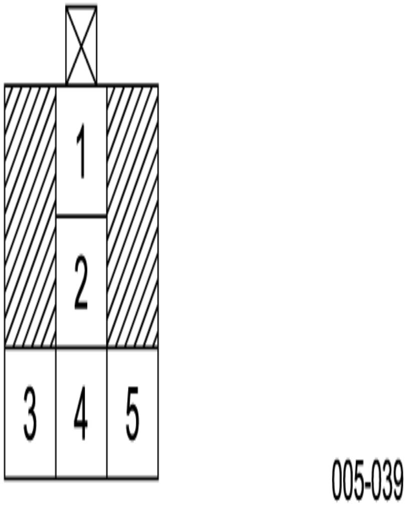
No.	Connector Face
X-14	 1 2 3 4 5 005-039 4557846 Vacuum Pump Relay
X-15	 1 2 3 4 5 005-039 4557846 Headlight (High) Relay

No.	Connector Face
X-16	 1 2 3 4 5 005-039 4557846 Taillight Relay
X-17	 4 1 2 3 5 005-040 4558039 Starter Relay

No.	Connector Face
X-20	 3 1 4 2 5 005-041 4558036 Magnetic Clutch Relay
X-21	 1 2 3 4 5 005-039 4557846 Condenser Fan Relay

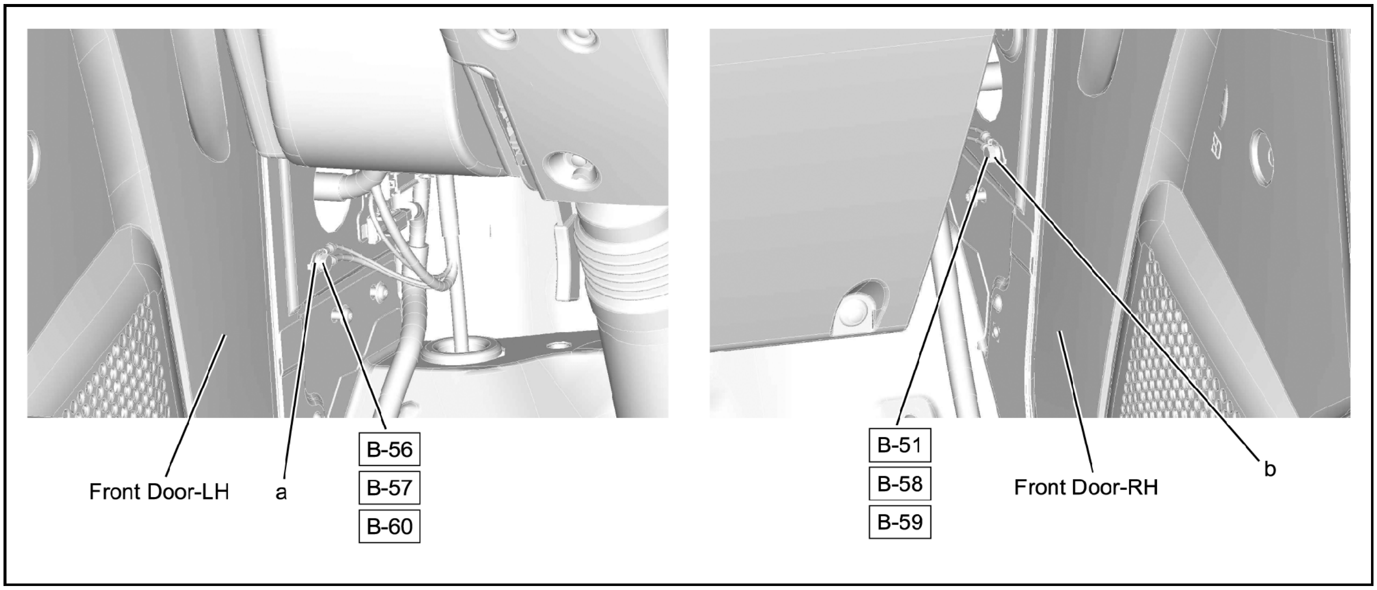
No.	Connector Face
X-22	 1 2 3 4 5 005-039 4557846 Fuel Pump Relay
X-23	 1 2 3 4 5 005-039 4557846 Rear Dome Light Relay

No.	Connector Face
X-26	 1 2 3 4 5 005-039 4557846 Marker Light Relay
X-28	 1 2 3 4 5 005-039 4557846 PCM Main Relay

No.	Connector Face
X-30	 1 2 3 4 5 005-039 4557846 A/C Enable Relay

Component Locator

Ground Views

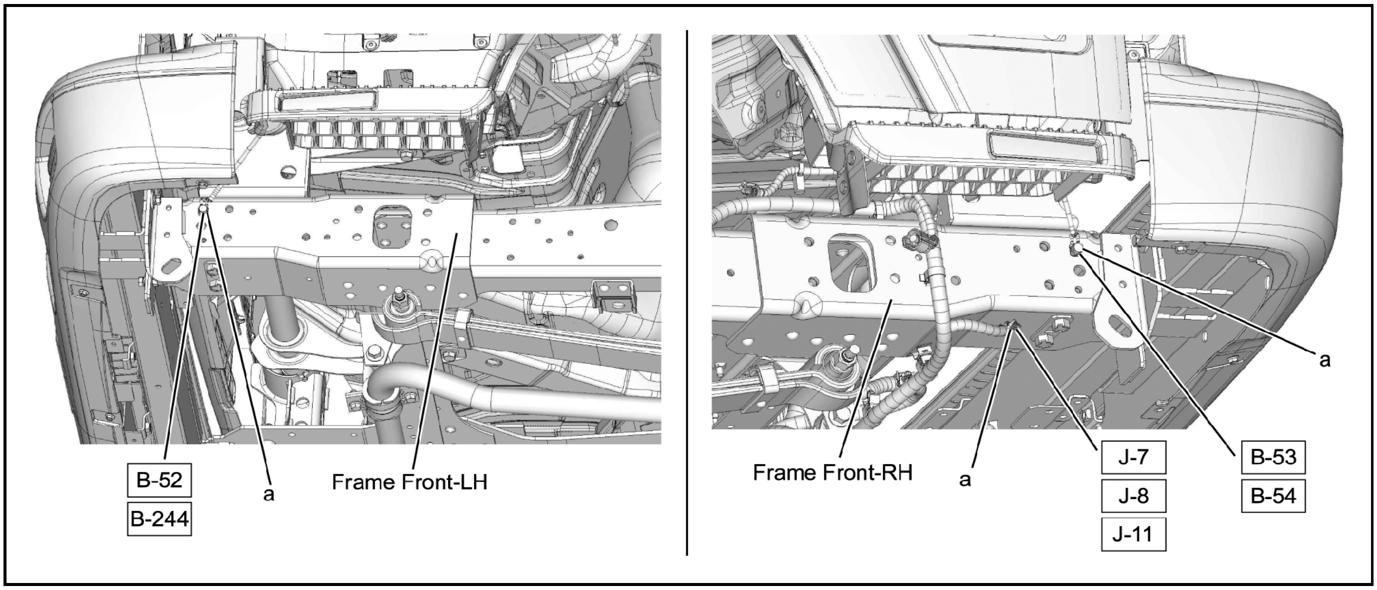

Front Door-LH
a
B-56
B-57
B-60
B-51
B-58
B-59
Front Door-RH
b

4556206

Legend

(a) 20 N•m (15 lb ft)

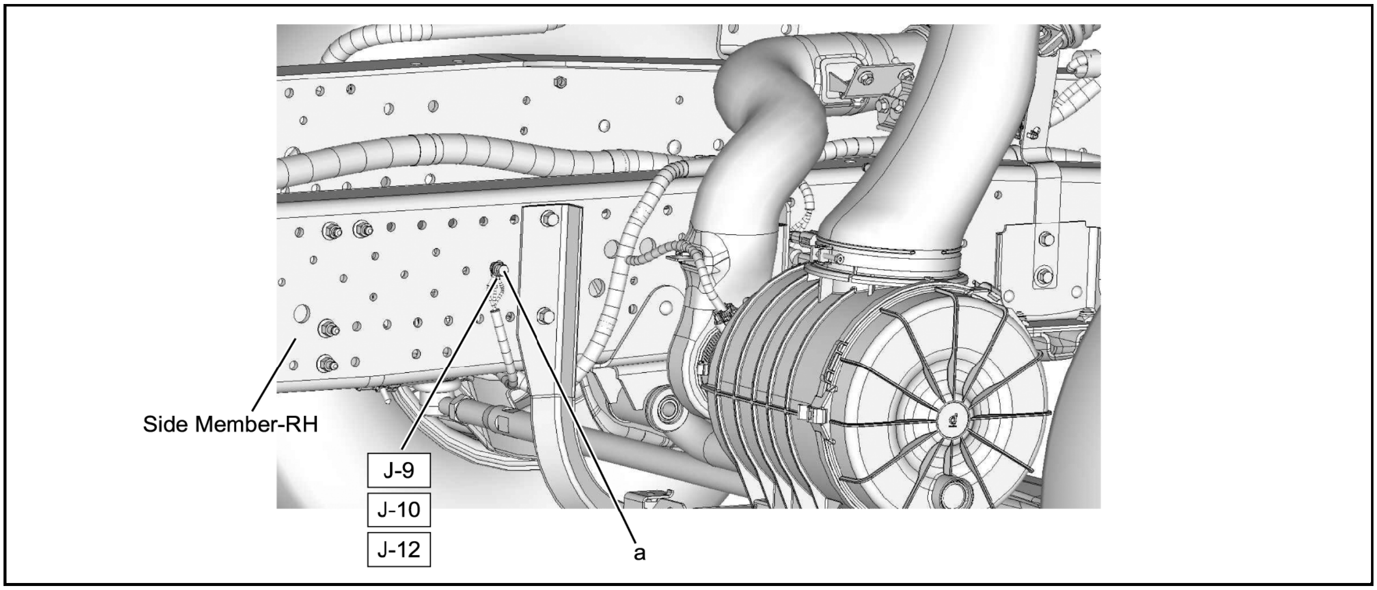
(b) 8 N•m (71 lb in)


B-52
B-244
a
Frame Front-LH
Frame Front-RH
a
J-7
J-8
J-11
B-53
B-54
a

4556209

Legend

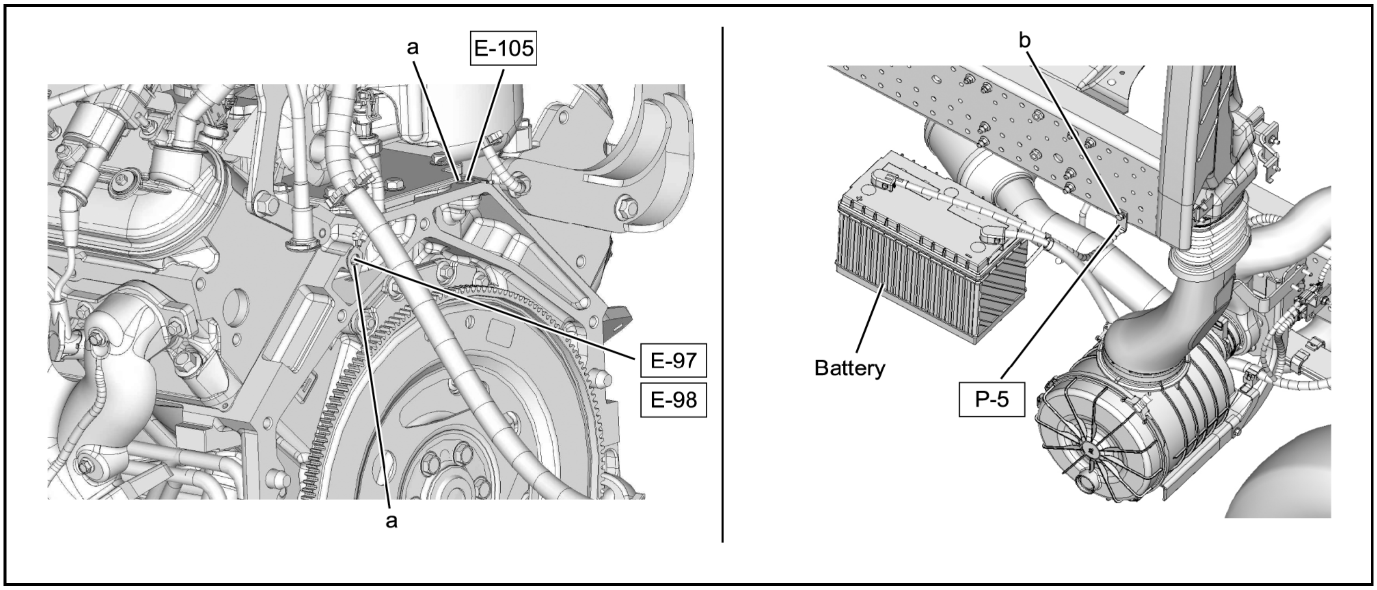
(a) 26 N•m (19 lb ft)


Side Member-RH
J-9
J-10
J-12
a

4556214

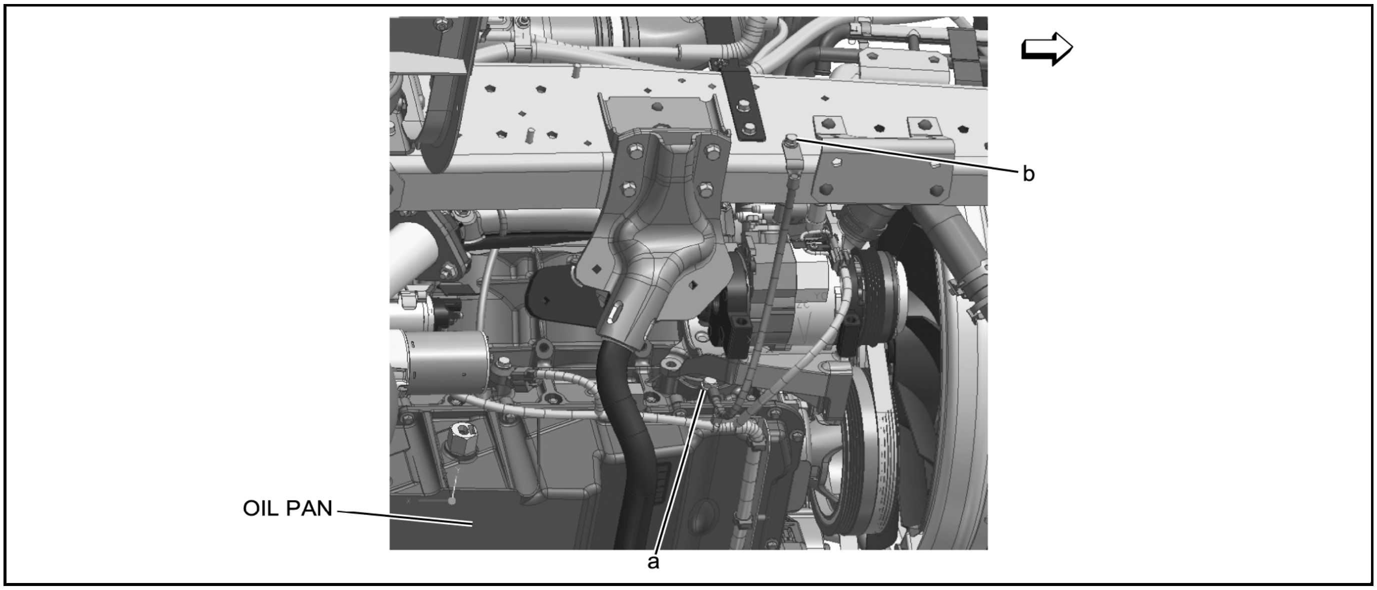
Legend

(a) 26 N•m (19 lb ft)


a
E-105
E-97
E-98
a
b
Battery
P-5
4556218

Legend

(a)	16 N•m (12 lb ft)	(b)	26 N•m (19 lb ft)


b
OIL PAN
a
4556223

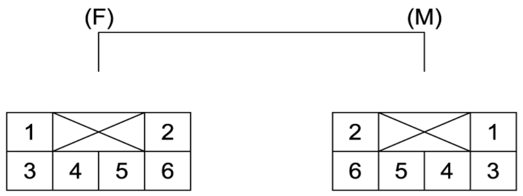
Legend

(a)	50 N•m (37 lb ft)	(b)	17 N•m (13 lb ft)

Visual Identification

Inline Harness Connector End Views

H-31

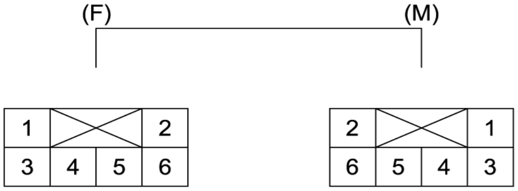


LNW78DSH000201

4497201

Connector No.	**H-31**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLK	Sub Junction Block B-259 (8)	BLK	Side Turn Signal Light (LH)
2	GRN/BLK	Sub Junction Block B-254 (11)	GRN/BLK	Side Turn Signal Light (LH)
3	GRN/RED	Sub Junction Block B-258 (12)	GRN/RED	Side Marker Light (LH)
4	ORN	Audio	ORN	Speaker (LH)
5	GRN/BLK	Combination Switch	GRN/BLK	Front Cornering Light (LH)
6	BLK	Audio	BLK	Speaker (LH)

H-32

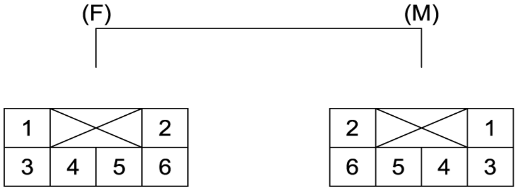


LNW78DSH000201

4497201

Connector No.	H-32			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLK	Sub Junction Block B-259 (6)	BLK	Side Turn Signal Light (RH)
2	GRN/WHT	Sub Junction Block B-254 (10)	GRN/WHT	Side Turn Signal Light (RH)
3	GRN/RED	Sub Junction Block B-259 (1)	GRN/RED	Side Marker Light (RH)
4	GRY	Audio	GRY	Speaker (RH)
5	GRN/WHT	Combination Switch	GRN/WHT	Front Cornering Light (RH)
6	GRN	Audio	GRN	Speaker (RH)

H-45



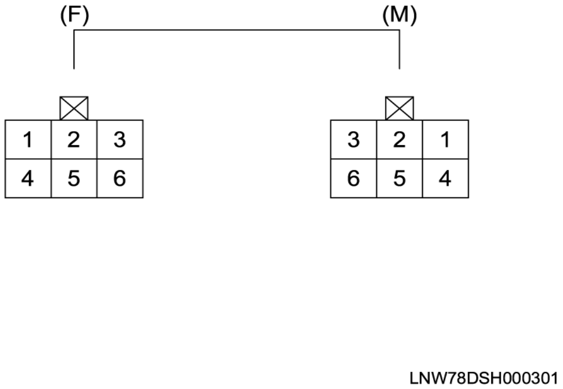
LNW78DSH000201

4497201

Connector No.	H-45			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED	J/C-31	—	Not Used
2	RED	J/C-31	RED	Dome Light
3	GRY	J/C-30	GRY/BLU	Dome Light
4	GRN/RED	Sub Junction Block B-259 (3)	GRN/RED	J/C-7
5	GRY	J/C-30	—	Not Used
6	BLK	Sub Junction Block B-259(16)	BLK	J/C-5

	Male		Female (C-Cab)	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	—	—	RED	Rear Dome Light
2	—	—	RED	Dome Light
3	—	—	GRY/BLU	Dome Light
4	—	—	GRN/RED	J/C-7
5	—	—	GRY/BLU	Rear Dome Light
6	—	—	BLK	J/C-5

H-49

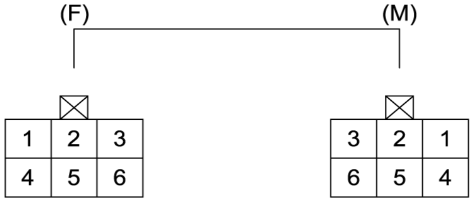


4506948

Connector No.	H-49			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/WHT	H-114 (3)	RED/WHT	Rear Power Window Switch (LH)
2	GRN/BLK	H-114 (2)	GRN/BLK	Rear Power Window Switch (LH)

Connector No.	H-49			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
3	GRN/YEL	H-114 (1)	GRN/YEL	Rear Power Window Switch (LH)
4	—	Not Used	—	Not Used
5	GRN/YEL	H-114 (8)	GRN/YEL	Rear Door Lock Motor (LH)
6	GRN/RED	H-114 (7)	GRN/RED	Rear Door Lock Motor (LH)

H-51

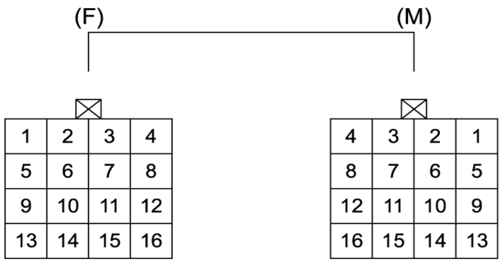


LNW78DSH000301

4506948

Connector No.	H-51			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/WHT	H-86 (10)	RED/WHT	Rear Power Window Switch (RH)
2	GRN	H-86 (9)	GRN/BLK	Rear Power Window Switch (RH)
3	BLU/YEL	H-86 (8)	GRN/YEL	Rear Power Window Switch (RH)
4	—	Not Used	—	Not Used
5	GRN/YEL	H-86 (6)	GRN/YEL	Rear Door Lock Motor (RH)
6	GRN/RED	H-86 (5)	GRN/RED	Rear Door Lock Motor (RH)

H-52

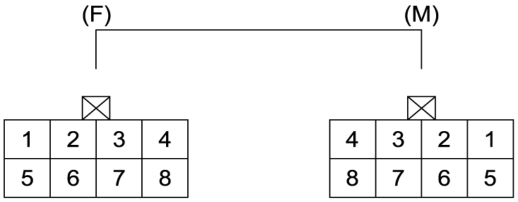


LNW78DSH000401

4497222

Connector No.	H-52			
Connector Color	White			
Test Adapter No.	(M) J-35616-12		(F) J-35616-13	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLU	H-113 (4)	BLU	Fuse PCM2 (20A)
2	VIO/WHT	Transmission Control Module (TCM)	VIO/WHT	Powertrain Control Module (PCM) A
3	RED/BLK	Transmission Control Module (TCM)	RED/BLK	H-81 (7)
4	BRN	Canister Purge Solenoid Valve	BRN	Fuse PCM3 (20A)
5	—	Not Used	—	Not Used
6	BLK/BLU	Transmission Control Module (TCM)	BLK/BLU	Powertrain Control Module (PCM) A
7	RED/YEL	Transmission Control Module (TCM)	RED/YEL	Powertrain Control Module (PCM) A
8	GRN/WHT	Transmission Control Module (TCM)	GRN	H-66 (2)
9	—	Not Used	—	Not Used
10	BRN	EA107 (1) Front Heater Sensor (LH)	BRN	Fuse PCM3 (20A)
11	GRN	Transmission Control Module (TCM)	GRN	H-83 (10)
12	GRN/WHT	Transmission Control Module (TCM)	GRN/WHT	H-83 (5)
13	YEL/BLK	H-112 (4)	YEL/BLK	Fuse PCM1 (20A)
14	—	Not Used	—	Not Used
15	GRN/WHT	Transmission Control Module (TCM)	GRN/WHT	Powertrain Control Module (PCM) A
16	GRN	Transmission Control Module (TCM)	GRN	Powertrain Control Module (PCM) A

H-66

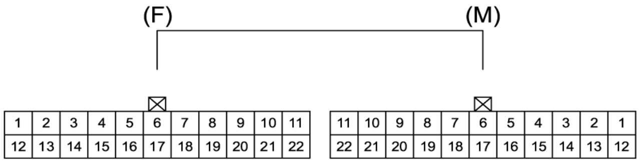


LNW78DSH000601

4497217

Connector No.	H-66			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRN/BLK	Rear Combination Light (LH)	GRN/BLK	H-81 (5)
2	GRN	Rear Combination Light (RH)	GRN	H-81 (6)
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	GRN/RED	License Plate Light.A	GRN/RED	Marker Light Relay
6	RED/BLU	Rear Combination Light (LH)	RED/BLU	H-81 (23)
7	BLK	Rear Combination Light (RH)	BLK	Earth Body 12
8	GRN/WHT	Rear Combination Light (RH)	GRN/WHT	H-81 (3)

H-80



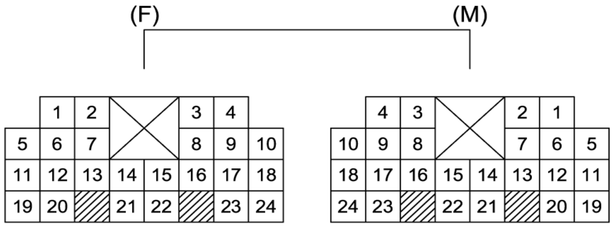
LNW78DSH004101

4497206

Connector No.	H-80			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	LT GRN/BLU	Data Link Connector	LT GRN/BLU	Electronic Hydraulic Control Unit (EHCU)
2	BLU	Instrument Panel (IP) Cluster.B	BLU	Electronic Hydraulic Control Unit (EHCU)
3	BLK/BLU	Master Cylinder Pressure Sensor	BLK/BLU	Electronic Hydraulic Control Unit (EHCU)
4	BLK/ORN	Master Cylinder Pressure Sensor	BLK/ORN	Electronic Hydraulic Control Unit (EHCU)
5	VIO	Accelerator Pedal Position Sensor	VIO	Powertrain Control Module (PCM).A
6	—	Not Used	—	Not Used
7	WHT	Accelerator Pedal Position Sensor	WHT	Powertrain Control Module (PCM).A
8	RED/WHT	Accelerator Pedal Position Sensor	RED/WHT	Powertrain Control Module (PCM).A
9	GRY	Electronic Thermostat	GRY	Magnetic Clutch Relay
10	GRN/RED	Cab Junction Block1 B-19 (10)	GRN/RED	Marker Light Relay
11	BLK/YEL	Cab Junction Block1 B-20 (4)	BLK/YEL	Electronic Hydraulic Control Unit (EHCU)
12	LT GRN/RED	Data Link Connector	LT GRN/RED	Electronic Hydraulic Control Unit (EHCU)
13	WHT/VIO	Instrument Panel (IP) Cluster.A	WHT/VIO	Electronic Hydraulic Control Unit (EHCU)
14	BLK/WHT	Master Cylinder Pressure Sensor	BLK/WHT	Electronic Hydraulic Control Unit (EHCU)
15	—	Not Used	—	Not Used
16	—	Not Used	—	Not Used
17	BLU/WHT	Accelerator Pedal Position Sensor	BLU/WHT	Powertrain Control Module (PCM).A

Connector No.	H-80			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
18	VIO/RED	Accelerator Pedal Position Sensor	VIO/RED	Powertrain Control Module (PCM).A
19	RED/BLU	Accelerator Pedal Position Sensor	RED/WHT	Powertrain Control Module (PCM).A
20	YEL	Sub Junction Block B-257 (1)	YEL	Rear Dome Light Relay
21	RED	Rear Dome Light Switch	RED	Rear Dome Light Relay
22	BLK/RED	Sub Junction Block B-258 (13)	BLK/RED	Magnetic Clutch Relay

H-81



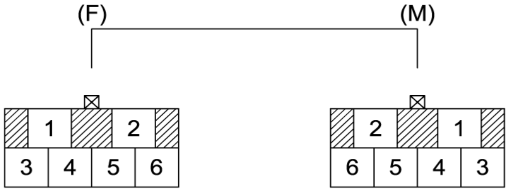
LNW78DSH004201

4497126

Connector No.	H-81			
Connector Color	Green			
Test Adapter No.	(M) J-35616-12/J-35616-40		(F) J-35616-13/J-35616-41	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/BLK	Cab Junction Block1 B-18 (9)	RED/BLK	Horn (LH)
2	—	Not Used	—	Not Used
3	GRN/WHT	Sub Junction Block B-256 (11)	GRN/WHT	H-66 (8)
4	—	Not Used	—	Not Used
5	GRN/BLK	Sub Junction Block B-256 (12)	GRN/BLK	H-66 (1)
6	GRN	Cab Junction Block1 B-22 (4)	GRN	H-66 (2)
7	RED/BLK	Cab Junction Block B-15 (3)	RED/BLK	H-52 (3)
8	BLU/ORN	Stoplight Switch	BLU/ORN	Powertrain Control Module (PCM).A
9	YEL/BLK	Instrument Panel (IP) Cluster.A	YEL/BLK	Powertrain Control Module (PCM).A
10	RED/YEL	Sub Junction Block B-256 (6)	RED/YEL	Powertrain Control Module (PCM).A

Connector No.	H-81			
Connector Color	Green			
Test Adapter No.	(M) J-35616-12/J-35616-40		(F) J-35616-13/J-35616-41	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
11	GRN/BLK	Weld Splice 8	GRN/BLK	Fuse Tail Main (20A)
12	BRN/YEL	PIM.B	BRN/YEL	Triple Pressure Switch
13	—	Not Used	—	Not Used
14	WHT/RED	Weld Splice 7	WHT/RED	SBF Headlight (30A)
15	BLK/RED	Cab Junction Block1 B-25 (1)	BLK/RED	SBF Starter Switch 1 (30A)
16	—	Not Used	—	Not Used
17	RED/BLK	Cab Junction Block1 B-16 (4)	BRN/ORN	Powertrain Control Module (PCM).A
18	BLK/BLU	Sub Junction Block B-257 (9)	BLK/BLU	Powertrain Control Module (PCM).A
19	GRN/BLK	Weld Splice 8	GRN/BLK	Fuse Tail Main (20A)
20	—	Not Used	—	Not Used
21	BLK/YEL	Weld Splice 5	BLK/YEL	SBF Junction Block (50A)
22	WHT/BLK	Cab Junction Block1 B-26 (2)	WHT/BLK	SBF Wiper (50A)
23	RED/BLU	Sub Junction Block B-259 (12)	RED/BLU	H-66 (6)
24	—	Not Used	—	Not Used

H-82



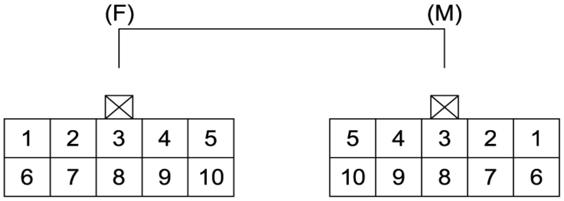
LNW78DSH004301

4497161

Connector No.	H-82			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-12/J-35616-44		(F) J-35616-13/J-35616-45	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	WHT/BLK	Blower Relay	WHT/BLK	SBF HVAC (40A)
2	RED/BLK	Power Accessory Relay	RED/BLK	SBF POWER ACC (50A)
3	—	Not Used	—	Not Used

Connector No.	H-82			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-12/J-35616-44		(F) J-35616-13/J-35616-45	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
4	—	Not Used	—	Not Used
5	BLK/YEL	Weld Splice 6	BLK/YEL	SBF Starter Switch 2 (40A)
6	BLK/YEL	Weld Splice 6	BLK/YEL	SBF Starter Switch 2 (40A)

H-83

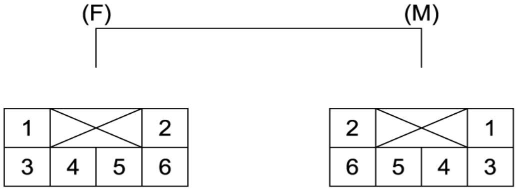


LNW78DSH000701

4497182

Connector No.	H-83			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	BLU	PIM.A	BLU	Electronic Hydraulic Control Unit (EHCU)
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	GRN/WHT	PIM.B	GRN/WHT	H-52 (12)
6	BLU/WHT	PIM.A	BLU/WHT	Electronic Hydraulic Control Unit (EHCU)
7	—	Not Used	—	Not Used
8	—	Not Used	—	Not Used
9	—	Not Used	—	Not Used
10	GRN	PIM.B	GRN	H-52 (11)

H-85



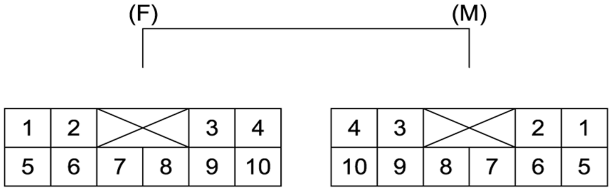
LNW78DSH000201

4497201

Connector No.	H-85			
Connector Color	Black			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	LT GRN/RED	Shift Lever Switch.B	LT GRN/RED	Sub Junction Block B-255 (7)
2	YEL/RED	Door Switch (LH)	GRY	J/C-30
3	LT GRN/BLK	Shift Lever Switch.B	LT GRN/BLK	Sub Junction Block B-253 (18)
4	WHT/BLK	Parking Brake Switch	WHT/BLK	Sub Junction Block B-254 (16)
5	—	Not Used	—	Not Used
6	—	Not Used	RED/YEL	Weld Splice 11

	Male (C-Cab)		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	LT GRN/RED	Shift Lever Switch.B	—	—
2	GRY	J/C-29	—	—
3	LT GRN/BLK	Shift Lever Switch.B	—	—
4	WHT/BLK	Parking Brake Switch.B	—	—
5	—	Not Used	—	—
6	RED/YEL	Rear Heater	—	—

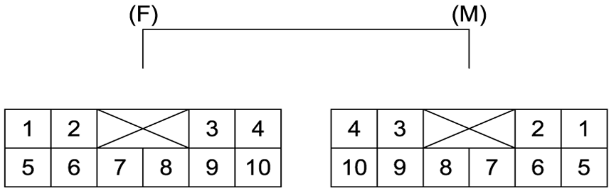
H-86



4497209

Connector No.	H-86			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRY	J/C-30	GRY	Door Switch (RH)
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	GRN/RED	Sub Junction Block B-253 (15)	GRN/RED	H-51 (6)
6	GRN/YEL	Cab Junction Block1 B-16 (9)	GRN/YEL	H-51 (5)
7	—	Not Used	—	Not Used
8	BLU/YEL	Rear Power Window Switch (RH)	BLU/YEL	H-51 (3)
9	GRN	Rear Power Window Switch (RH)	GRN	H-51 (2)
10	RED/WHT	Weld Splice 12	RED/WHT	H-51 (1)

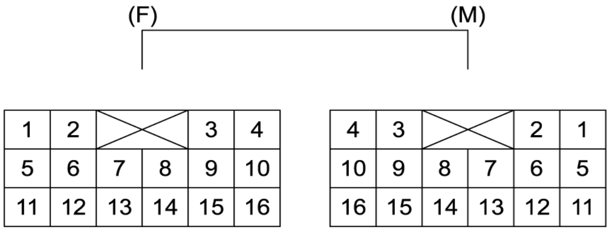
H-87



4497209

Connector No.	H-87			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLK	J/C-EA 10P1	BLK	Mirror Heater (RH)
2	GRN/RED	Sub Junction Block B-254 (6)	GRN/RED	Front Door Lock Motor (RH)
3	BLK/RED	Sub Junction Block B-254 (6)	BLK/RED	Front Cornering Light (RH)
4	BLU/WHT	H-92 (16)	BLU/WHT	Front Power Window Switch (RH)
5	BLK	J/C-EA 10P1	BLK	Side Marker Light (RH)
6	BRN/YEL	Cab Junction Block1 B-15 (5)	BRN/YEL	Front Power Window Switch (RH)
7	GRN/YEL	Cab Junction Block1 B-22 (6)	GRN/YEL	Front Door Lock Motor (RH)
8	BLU/RED	H-92 (4)	BLU/RED	Front Power Window Switch (RH)
9	RED/YEL	Mirror Heater Switch	RED/YEL	Mirror Heater (RH)
10	—	Not Used	—	Not Used

H-92

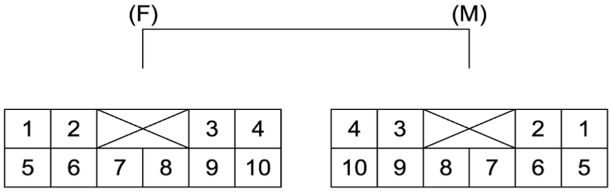


LNW78DSH001001

4497208

Connector No.	H-92			
Connector Color	Black			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRN/BLK	Cab Junction Block1 B-17 (6)	GRN/BLK	Front Door Lock Motor (LH)
2	BLK/RED	Sub Junction Block B-254 (18)	BLK/RED	Front Cornering Light (LH)
3	—	Not Used	—	Not Used
4	BLU/RED	H-87 (8)	BLU/RED	Front Power Window Switch (LH)
5	GRN/RED	Sub Junction Block B-253 (5)	GRN/RED	Front Door Lock Motor (LH)
6	—	Not Used	—	Not Used
7	BRN/YEL	Cab Junction Block1 B-23 (2)	BRN/YEL	Front Power Window Switch (LH)
8	RED/YEL	Cab Junction Block1 B-17 (8)	RED/YEL	Mirror Heater (LH)
9	BLK	J/C-EA 10P2	BLK	Mirror Heater (LH)
10	BLK	J/C-30P	BLK	Front Door Lock Motor (LH)
11	BLK	J/C-EA 10P2	BLK	Front Power Window Switch (LH)
12	—	Not Used	—	Not Used
13	GRN/YEL	Cab Junction Block1 B-21 (9)	GRN/YEL	Front Door Lock Motor (LH)
14	—	Not Used	—	Not Used
15	BLK	J/C-30P	BLK	Side Marker Light (LH)
16	BLU/WHT	H-87 (4)	BLU/WHT	Front Power Window Switch (LH)

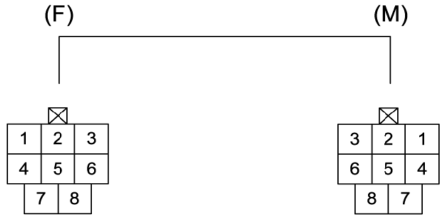
H-93



4497209

Connector No.	H-93			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLU/YEL	Shift Lever Switch.A	BLU/YEL	Instrument Panel (IP) Cluster.B
2	BLU	Shift Lever Switch.A	BLU	Instrument Panel (IP) Cluster.B
3	RED/BLU	Shift Lever Switch.A	RED/BLU	Sub Junction Block B-260 (12)
4	WHT/RED	Shift Lever Switch.A	WHT/RED	Instrument Panel (IP) Cluster.B
5	BLK/RED	Shift Lever Switch.A	BLK/RED	Sub Junction Block B-258 (2)
6	GRN/YEL	Shift Lever Switch.A	GRN/YEL	Cab Junction Block B-21 (10)
7	RED/BLK	Shift Lever Switch.A	RED/BLK	J/C-30P
8	BLU/BLK	Shift Lever Switch.A	BLU/BLK	Instrument Panel (IP) Cluster.B
9	BLU/WHT	Shift Lever Switch.A	BLU/WHT	Instrument Panel (IP) Cluster.B
10	BLU/RED	Shift Lever Switch.A	BLU/RED	Instrument Panel (IP) Cluster.B

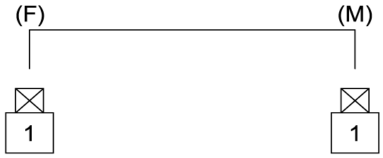
H-109



4557705

Connector No.	H-109			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18/J-35616-42		(F) J-35616-19/J-35616-43	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLU	A/C Compressor	BLU	A/C Enable Relay
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	BLU	Powertrain Control Module (PCM).B	BLU	Heater O² Sensor (FRT RH)
5	BLU/BLK	Powertrain Control Module (PCM).B	BLU/BLK	Heater O² Sensor (FRT RH)
6	BLU/RED	Powertrain Control Module (PCM).B	BLU/RED	Heater O² Sensor (FRT RH)
7	BLK	Earth Body 26	BLK	Powertrain Control Module (PCM).A
8	—	Not Used	—	Not Used

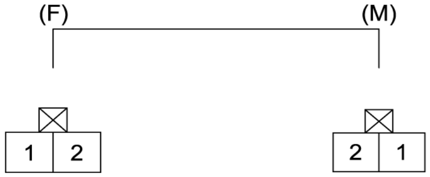
H-110


(F)
(M)
1
1
LNWA8DSH000601

4497220

Connector No.	H-110			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-42		(F) J-35616-43	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLK/WHT	Starter Relay	BLK/WHT	Starter

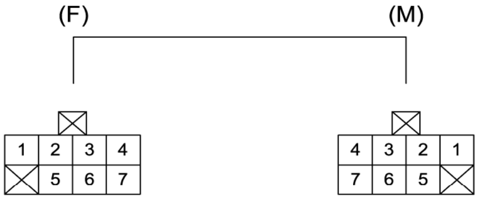
H-111


(F)
(M)
1
2
2
1
LNW78DSH000501

4497116

Connector No.	H-111			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-42		(F) J-35616-43	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	WHT	Relay Box	BLU	Battery
2	WHT	AC Generator	BLU	Battery

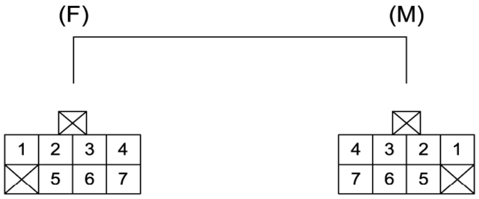
H-112



4557707

Connector No.	H-112			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-33		(F) J-35616-34	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	—	—	BRN	Powertrain Control Module (PCM).B
2	—	—	LT BLU	Powertrain Control Module (PCM).B
3	—	—	VIO	Powertrain Control Module (PCM).B
4	—	—	YEL/BLK	H-52 (13)
5	—	—	DAK GRN	Powertrain Control Module (PCM).B
6	—	—	ORN	Powertrain Control Module (PCM).B
7	—	—	BLK	Earth Body 25

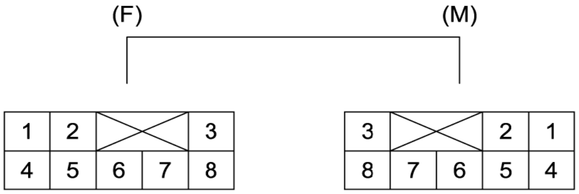
H-113



4557707

Connector No.	H-113			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-33		(F) J-35616-34	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	—	—	BRN	Powertrain Control Module (PCM).B
2	—	—	LT BLU/WHT	Powertrain Control Module (PCM).B
3	—	—	VIO/WHT	Powertrain Control Module (PCM).B
4	—	—	BLU	H-52 (1)
5	—	—	DAK GRN/WHT	Powertrain Control Module (PCM).B
6	—	—	ORN/WHT	Powertrain Control Module (PCM).B
7	—	—	BLK	Earth Body 25

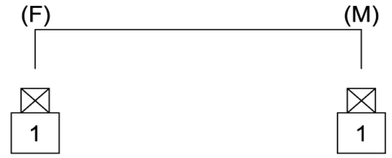
H-114



4557708

Connector No.	H-114			
Connector Color	White			
Test Adapter No.	(M) J-35616-2A		(F) J-35616-3	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	GRN/YEL	H-49 (3)	GRN/YEL	Rear Power Window Switch (LH)
2	GRN/BLK	H-49 (2)	GRN/BLK	Rear Power Window Switch (LH)
3	RED/WHT	H-49 (1)	RED/WHT	Weld Splice 12
4	—	Not Used	—	Not Used
5	—	Not Used	—	Not Used
6	—	Not Used	—	Not Used
7	GRN/RED	H-49 (6)	GRN/RED	Sub Junction Block B-253 (14)
8	GEN/YEL	H-49 (5)	GEN/YEL	Cab Junction Block 1 B-20 (7)

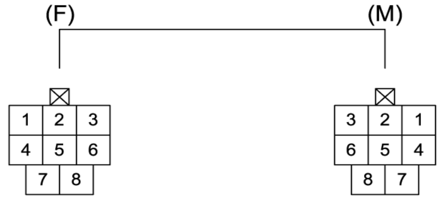
H-170



4557709

Connector No.	H-170			
Connector Color	Light Gray			
Test Adapter No.	(M) J-35616-44		(F) J-35616-45	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/GRN	Relay Box FL-14 ETB	RED/GRN	EXT_ETB No.1

H-172



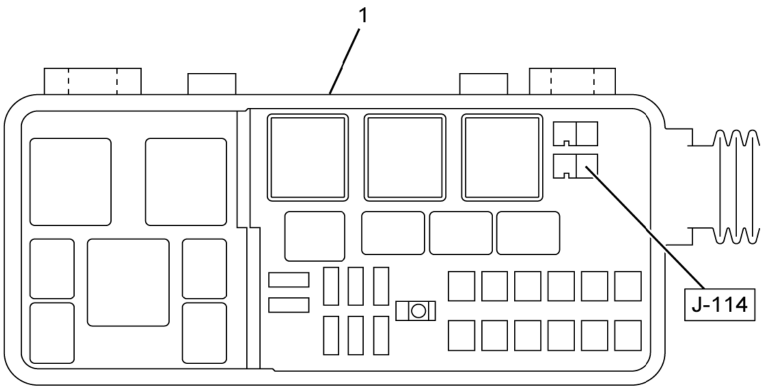
LNWA8DSH000501

4497846

Connector No.	**H-172**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-42**		**(F) J-35616-43**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRN	H-101 (3)	—	—
2	GRN/RED	H-101 (5)	—	—
3	GRN/BLK	H-101 (1)	—	—
4	GRN/WHT	H-101 (2)	—	—
5	BLK	Weld Splice 4	—	—
6	—	Not Used	—	—
7	—	Not Used	—	—
8	RED/WHT	Relay Box Fuse FL-16 Towing Converter	—	—

Component Locator

Diode Location



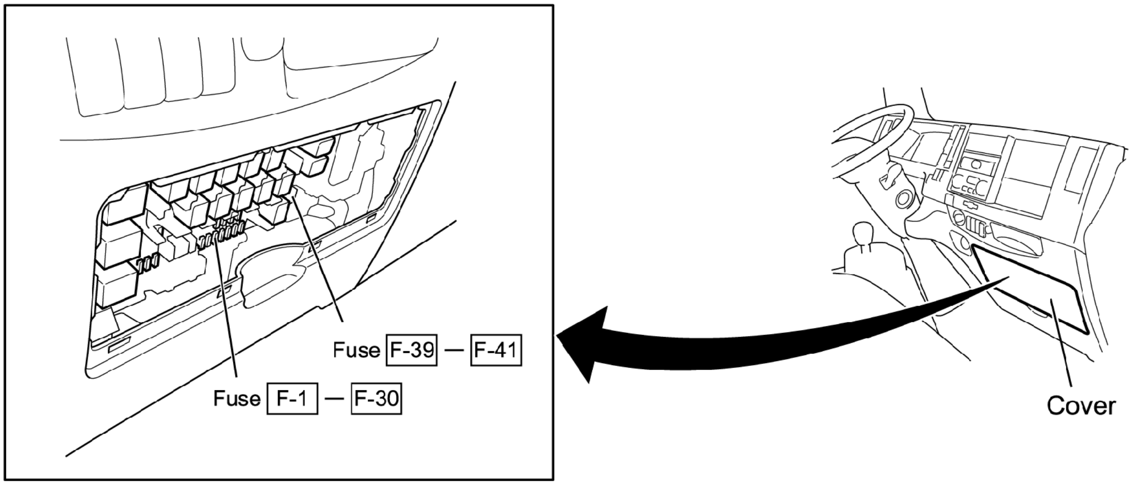
Connector No.	Usage
J-114	A/C

4555749

Legend

(1) Relay Box

Fuse, Fusible Link, and Slow-Blow Fuse Location



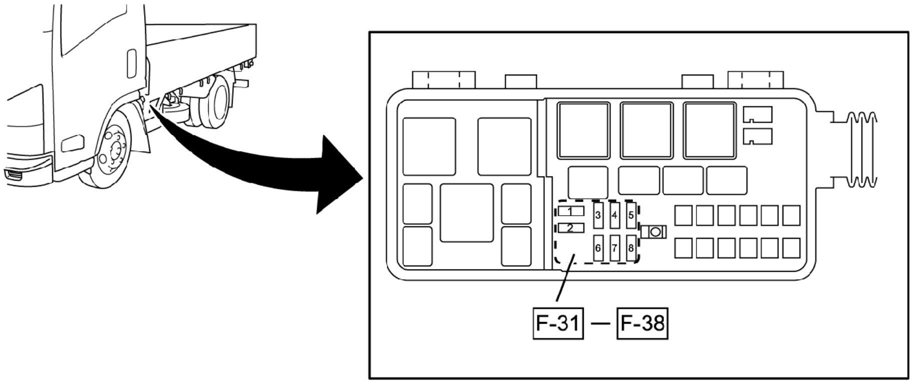
FUSE LABEL

RR P/WINDOW	—	ROOM LAMP,AUDIO	DOOR LOCK	TRAILER BRAKE	P/WINDOW	ABS	WIPER	H/LAMP LO (LH)	LAMPS (BATT)	H/LAMP LO (RH)	BRAKE LAMPS	STARTER	H/LAMP HI (LH)	H/LAMP HI (RH)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
25A		10A	15A	15A	25A	10A	25A	10A	10A	10A	10A	10A	10A	10A

SPARE SPARE SPARE SPARE

MIRROR HEATER	IGNITION2	IGNITION1	—	ECM	METER	ECU (BATT)	MIRROR	AUDIO, ACC	HORN	TURN, HAZARD	TAIL LAMPS	ILLUMINATIONS	CORNERING LAMPS	AIR CONDITIONER
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
15A	10A	10A		10A	10A	10A	10A	15A	15A	15A	10A	10A	10A	10A

F-39 (D-1)	20A	CIGAR
F-40 (D-2)	15A	ACCESSORIES SOCKET
F-41 (D-3)	20A	POWER SOURCE

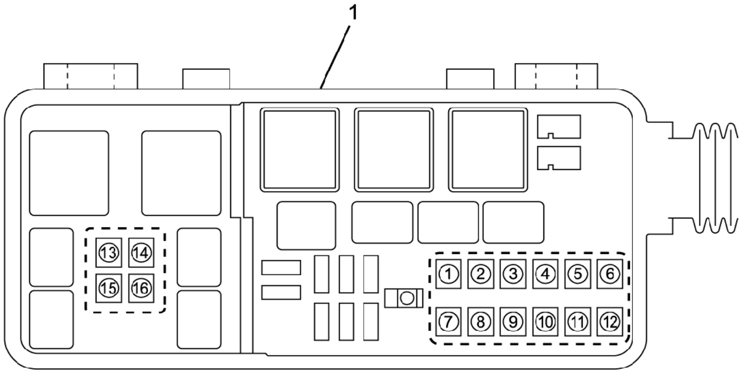


1	20A F-31	MARKER LAMP
2	20A F-32	TAIL MAIN
3	20A F-33	PCM1
4	20A F-34	PCM2
5	20A F-35	PCM3
6	15A F-36	POWER SOURCE
7	20A F-37	CONDENSER FAN
8	10A F-38	AIR CONDITIONER

4554806

Note: The fuse numbers (1)-(30) indicated on the fuse labels are expressed as [F-1] – [F-30] in the circuit diagrams of this manual.

Slow Blow Fuse



No.	SBF No.	Name	Capacity
①	FL-1	PCM	40A
②	FL-2	STARTER	60A
③	FL-3	POWER ACC	50A
④	FL-4	FUEL PUMP	30A
⑤	FL-5	STARTER SWITCH 2	40A
⑥	FL-6	STARTER SWITCH 1	30A
⑦	FL-7	HVAC	40A
⑧	FL-8	HEADLIGHT	30A
⑨	FL-9	RR DOME LIGHT	30A
⑩	FL-10	WIPER	50A
⑪	FL-11	ABS	60A
⑫	FL-12	JUNCTION BLOCK	50A
⑬	FL-13	—	—
⑭	FL-14	ETB	30A
⑮	FL-15	—	—
⑯	FL-16	TOWING CONVERTER	30A

4554808

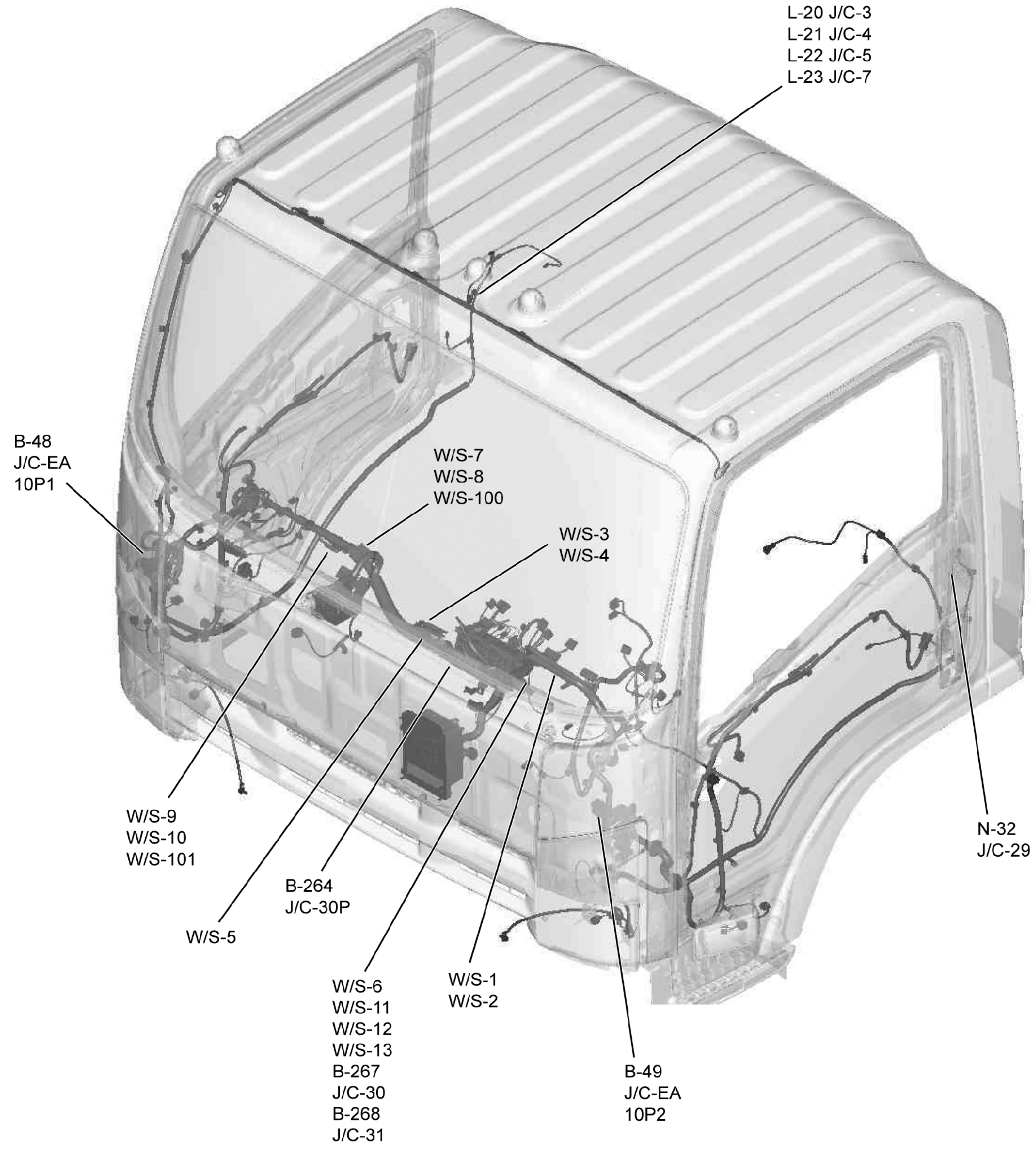
Legend

(1) Relay Box

Note: The slow blow fuse numbers (1)-(12) indicated on the fuse labels are expressed as [FL-1] – [FL-12] in the circuit diagrams of this manual.

Joint Connection and Weld Splice Location

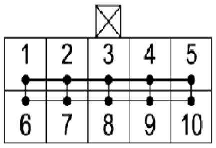
Body Cable Harness


L-20 J/C-3
L-21 J/C-4
L-22 J/C-5
L-23 J/C-7
B-48
J/C-EA
10P1
W/S-7
W/S-8
W/S-100
W/S-3
W/S-4
W/S-9
W/S-10
W/S-101
B-264
J/C-30P
W/S-5
W/S-6
W/S-11
W/S-12
W/S-13
B-267
J/C-30
B-268
J/C-31
W/S-1
W/S-2
B-49
J/C-EA
10P2
N-32
J/C-29

4554810

Joint Connection Circuit

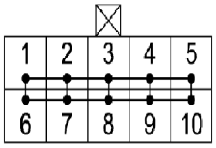
B-48 J/C-EA 10P1



Joint Point	Terminal No.	Connection
●	1	DRL Control Unit.A
●	2	Audio Ground
●	3	Illumination Control Switch
●	4	J/C-EA 10P2
●	5	Side Marker Light RH Ground
●	6	J/C-30P
●	7	Mirror Heater RH Ground
●	8	Rear Power Window Switch LH Ground
●	9	Headlight RH Ground
●	10	Body Ground

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

B-49 J/C-EA 10P2

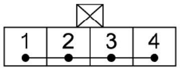


Joint Point	Terminal No.	Connection
●	1	Front Power Window Switch LH Ground
●	2	Combination Switch Ground
●	3	Rear Power Window Switch LH Ground
●	4	Blower Resistor
●	5	Body Ground
●	6	Headlight LH Ground
●	7	Vacuum Pump Ground
●	8	Mirror Heater LH Ground
●	9	J/C-30P
●	10	J/C-EA 10P1

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

4554921

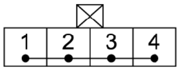
B-267 J/C-30



Joint Point	Terminal No.	Connection
●	1	Door Switch (LH) (S-Cab)
		J/C-29 (C-Cab)
●	2	Door Switch (RH) (C-Cab)
●	3	Rear Dome Light Ground
●	4	Dome Light Ground

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

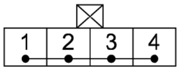
B-268 J/C-31



Joint Point	Terminal No.	Connection
●	1	Rear Dome Light
●	2	Dome Light
●	3	——
●	4	Cab Junction Block1,A

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

N-32 J/C-29 (C-Cab)

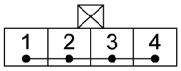


Joint Point	Terminal No.	Connection
●	1	Rear Door Switch (LH)
●	2	Rear Door Switch (RH)
●	3	Door Switch (LH) (C-Cab)
●	4	J/C-30

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

4554922

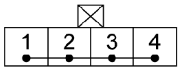
L-20 J/C-3



Joint Point	Terminal No.	Connection
●	1	Identification Light 3
●	2	Identification Light 2
●	3	Marker 1
●	4	J/C-7

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

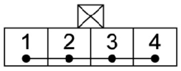
L-21 J/C-4



Joint Point	Terminal No.	Connection
●	1	Identification Light 3
●	2	Identification Light 2
●	3	Marker 1
●	4	J/C-5

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

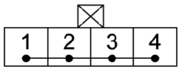
L-22 J/C-5



Joint Point	Terminal No.	Connection
●	1	Identification Light 1
●	2	Marker 2
●	3	J/C-4
●	4	Sub Junction Block, G

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

L-23 J/C-7

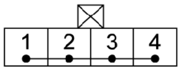


Joint Point	Terminal No.	Connection
●	1	Identification Light 1
●	2	Marker 2
●	3	J/C-3
●	4	Sub Junction Block, G

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

4554924

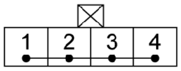
L-20 J/C-3



Joint Point	Terminal No.	Connection
●	1	Identification Light 3
●	2	Identification Light 2
●	3	Marker 1
●	4	J/C-7

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

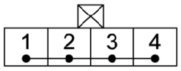
L-21 J/C-4



Joint Point	Terminal No.	Connection
●	1	Identification Light 3
●	2	Identification Light 2
●	3	Marker 1
●	4	J/C-5

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

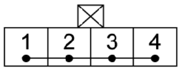
L-22 J/C-5



Joint Point	Terminal No.	Connection
●	1	Identification Light 1
●	2	Marker 2
●	3	J/C-4
●	4	Sub Junction Block, G

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

L-23 J/C-7



Joint Point	Terminal No.	Connection
●	1	Identification Light 1
●	2	Marker 2
●	3	J/C-3
●	4	Sub Junction Block, G

※ TERMINAL ARRANGEMENT IN THE SAME BUSBAR CAN BE DECIDED

4554927

Reference Table of Weld Splice

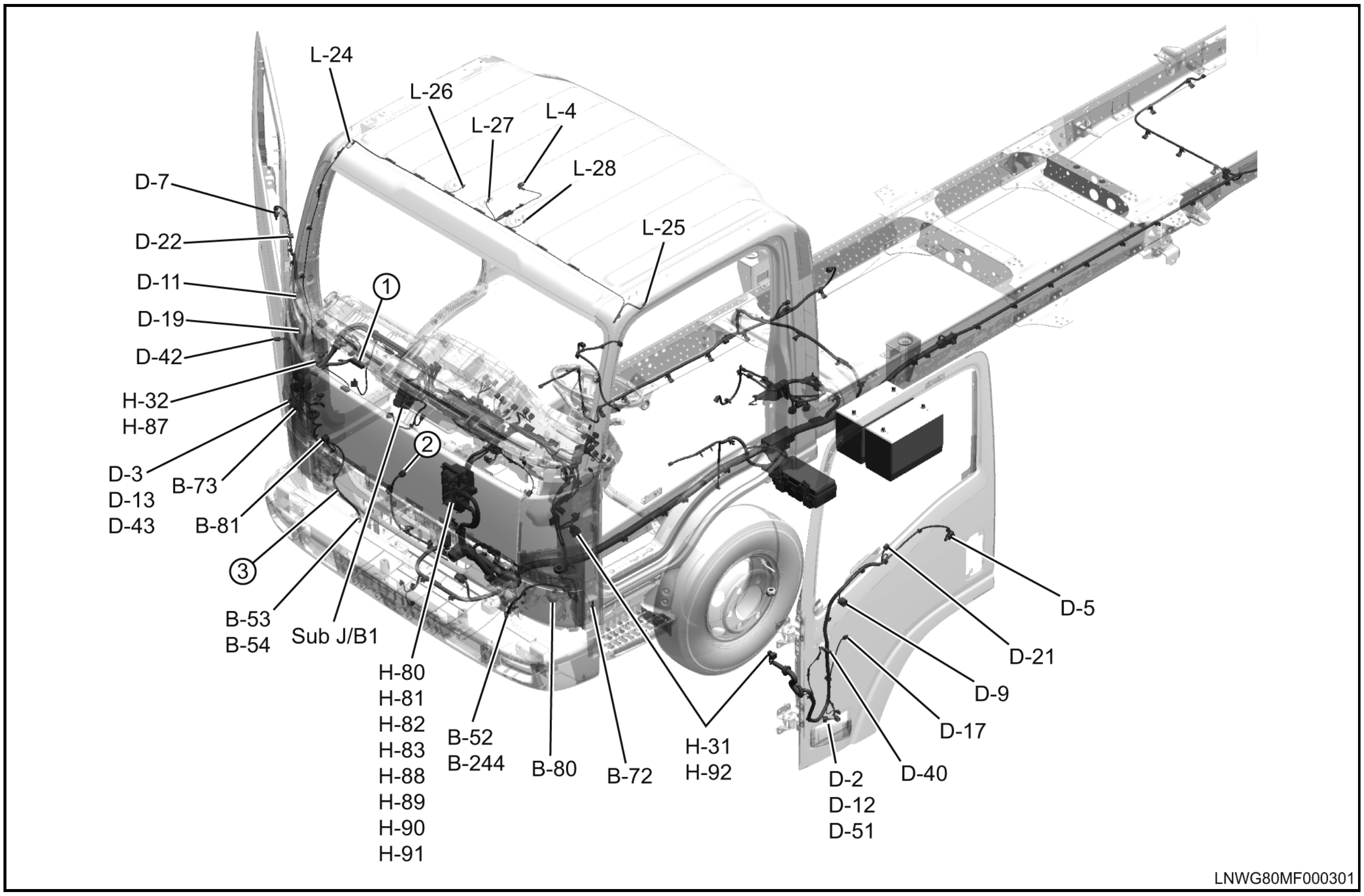
Connector No.	Usage
Weld Splice-1	Headlight (LH)
	DRL Control Unit .B
	Cab Junction Block 1.B
Weld Splice-2	Headlight (RH)
	Cab Junction Block 1.F
	DRL Control Unit .B
Weld Splice-3	Blower
	Blower Resistor
	Blower Switch
Weld Splice-4	Cab Junction Block 1.P
	Blower Relay
	Blower
Weld Splice-5	Cab Junction Block 1.P
	Slow Blow Fuse 12
	Cigarette Lighter Relay
Weld Splice-6	Ignition Switch
	Slow Blow Fuse 5
	Slow Blow Fuse 5
Weld Splice-7	Cab Junction Block 1.M
	Cab Junction Block 1.P
	Slow Blow Fuse 8
Weld Splice-8	Cab Junction Block 1.P
	Fuse 32
	Fuse 32
Weld Splice-9	Body Earth 9
	Body Earth 15
	Front Wiper Motor
	Blower Switch
Weld Splice-10	Sub Junction Block .F
	Body Earth 7
	Body Earth 6
	Cigarette Lighter .B
	Accessory Socket .B
	EXT ETB-4
Weld Splice-11	Fuse 39
	Cigarette Lighter.A
	Rear Heater
Weld Splice-12	Rear Power Window Switch (LH)
	Rear Power Window Switch (RH)
	Rear Power Window Switch (RH)
	Rear Power Window Switch (LH)
	Cab Junction Block 1.A

Reference Table of Weld Splice (cont'd)

Connector No.	Usage
Weld Splice-13	Rear Power Window Switch (RH)
	Rear Power Window Switch (RH)
	Rear Power Window Switch (LH)
	Rear Power Window Switch (LH)
	J/C-EA 10P1
Weld Splice-100	Front Wiper Motor
	Intermittent Relay
	Cab Junction Block 1.E
Weld Splice-101	Cab Junction Block 1.E
	Front Washer Motor
	Front Wiper Motor

Parts Location

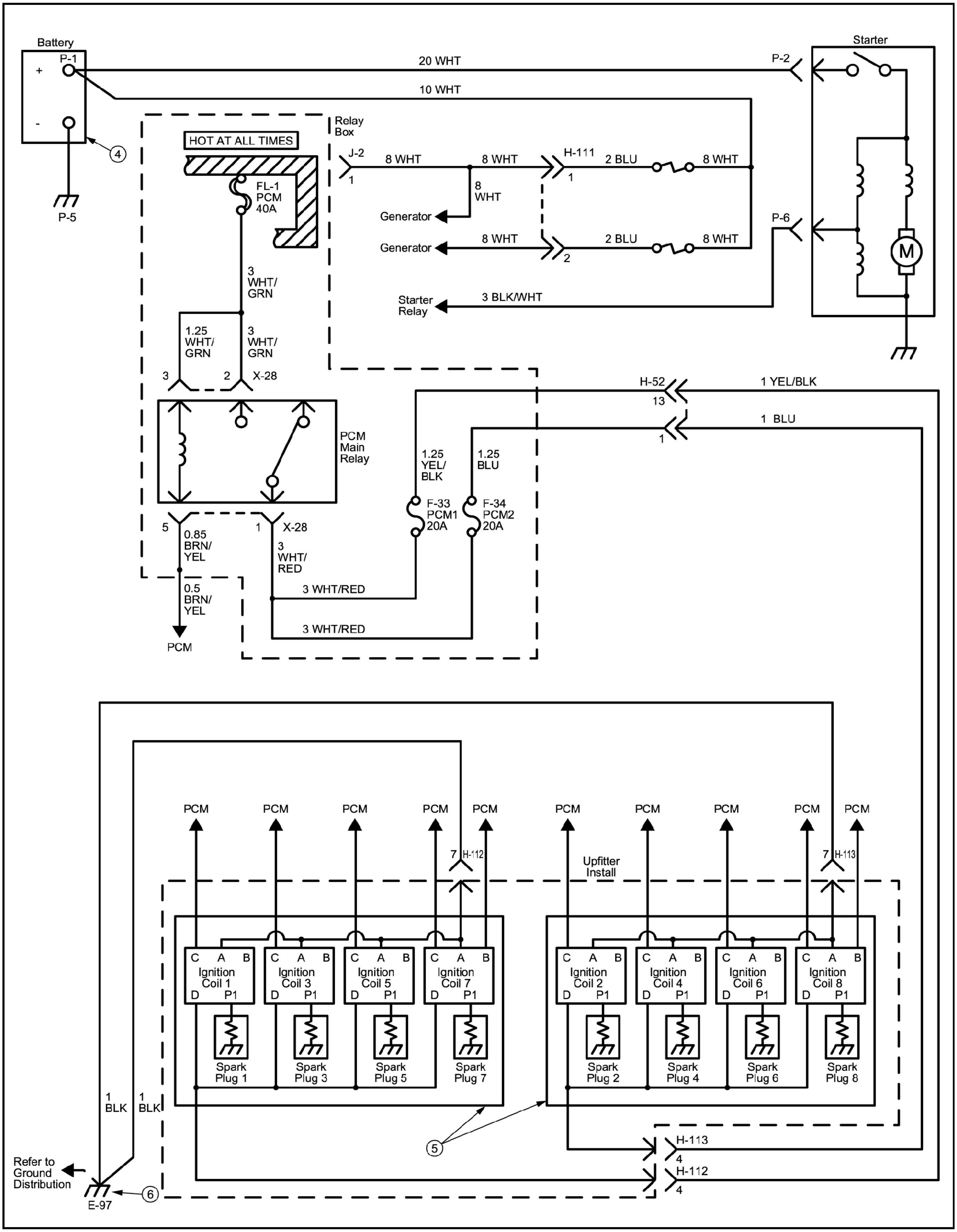
The parts location shows the location of the parts (1) and the connector (2) used in each harness routing (3).


L-24
L-26
L-27
L-4
L-28
L-25
D-7
D-22
D-11
D-19
D-42
H-32
H-87
D-3
D-13
D-43
B-73
B-81
①
②
③
B-53
B-54
Sub J/B1
H-80
H-81
H-82
H-83
H-88
H-89
H-90
H-91
B-52
B-244
B-80
B-72
H-31
H-92
D-2
D-12
D-51
D-40
D-17
D-9
D-21
D-5
LNWG80MF000301

4495884

Circuit Diagram

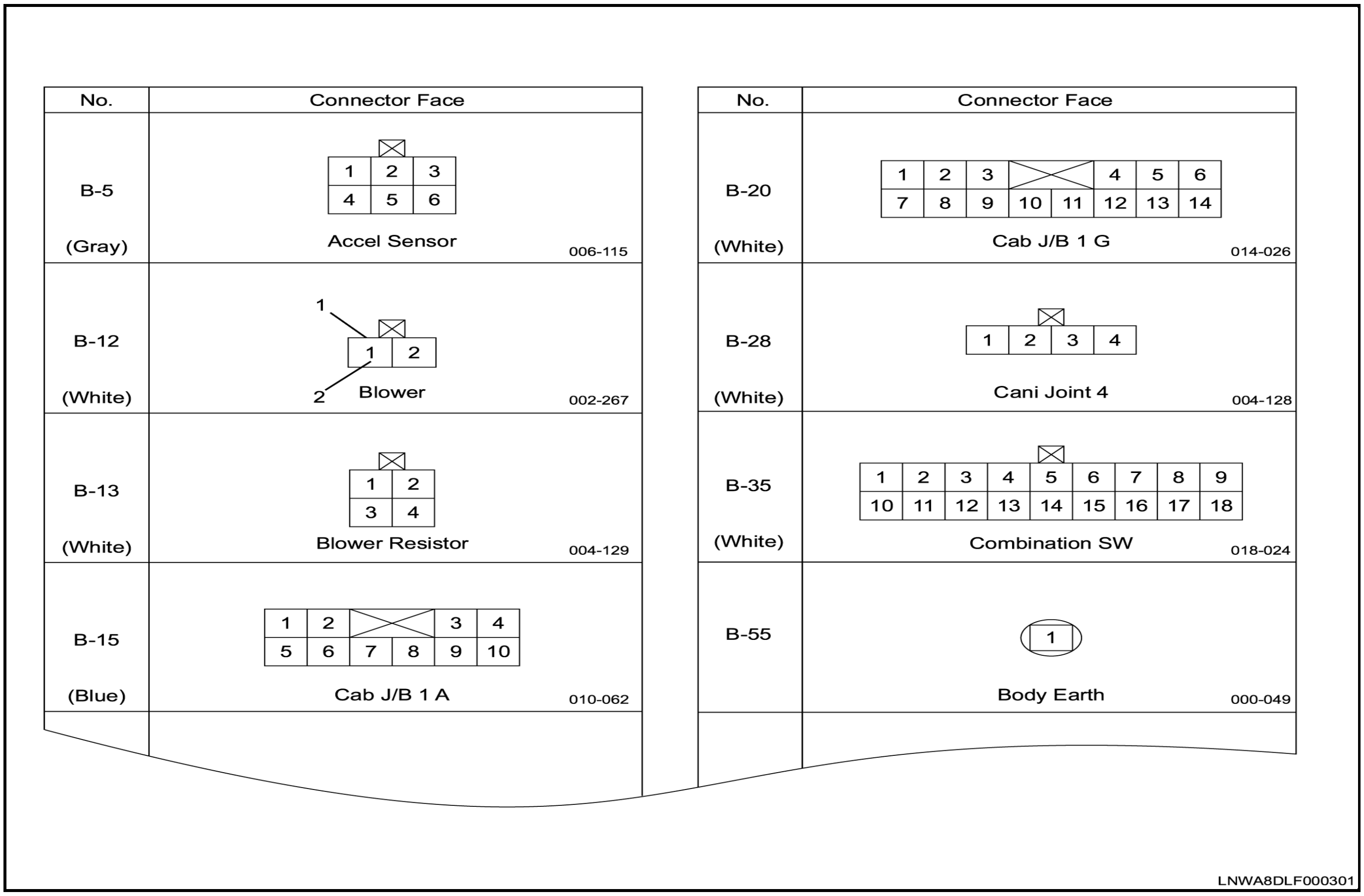
The circuit diagram shows the power supply (4) the load or loads (5) and the grounding point(s) (6).


Battery
P-1
+
-
4
P-5
20 WHT
10 WHT
P-2
Starter
Relay Box
HOT AT ALL TIMES
FL-1
PCM
40A
J-2
1
8 WHT
8 WHT
H-111
2 BLU
8 WHT
8
WHT
1
Generator
Generator
8 WHT
2 BLU
8 WHT
2
P-6
M
3
WHT/
GRN
Starter
Relay
3 BLK/WHT
1.25
WHT/
GRN
3
WHT/
GRN
3
2
X-28
H-52
13
1 YEL/BLK
1
1 BLU
PCM
Main
Relay
1.25
YEL/
BLK
1.25
BLU
F-33
PCM1
20A
F-34
PCM2
20A
5
1
X-28
0.85
BRN/
YEL
3
WHT/
RED
0.5
BRN/
YEL
3 WHT/RED
3 WHT/RED
PCM
PCM
PCM
PCM
PCM
PCM
PCM
PCM
PCM
PCM
PCM
7
H-112
Upfitter
Install
7
H-113
C A B
Ignition
Coil 1
D P1
C A B
Ignition
Coil 3
D P1
C A B
Ignition
Coil 5
D P1
C A B
Ignition
Coil 7
D P1
C A B
Ignition
Coil 2
D P1
C A B
Ignition
Coil 4
D P1
C A B
Ignition
Coil 6
D P1
C A B
Ignition
Coil 8
D P1
Spark
Plug 1
Spark
Plug 3
Spark
Plug 5
Spark
Plug 7
Spark
Plug 2
Spark
Plug 4
Spark
Plug 6
Spark
Plug 8
1
BLK
1
BLK
5
H-113
4
H-112
4
Refer to
Ground
Distribution
6
E-97

4554791

Connector List

The connector list shows each connector’s configuration (1) and the pin number (2).


No.
Connector Face
B-5
(Gray)
Accel Sensor
006-115
B-12
(White)
1
2
Blower
002-267
B-13
(White)
Blower Resistor
004-129
B-15
(Blue)
Cab J/B 1 A
010-062
B-20
(White)
Cab J/B 1 G
014-026
B-28
(White)
Cani Joint 4
004-128
B-35
(White)
Combination SW
018-024
B-55
Body Earth
000-049
LNWA8DLF000301

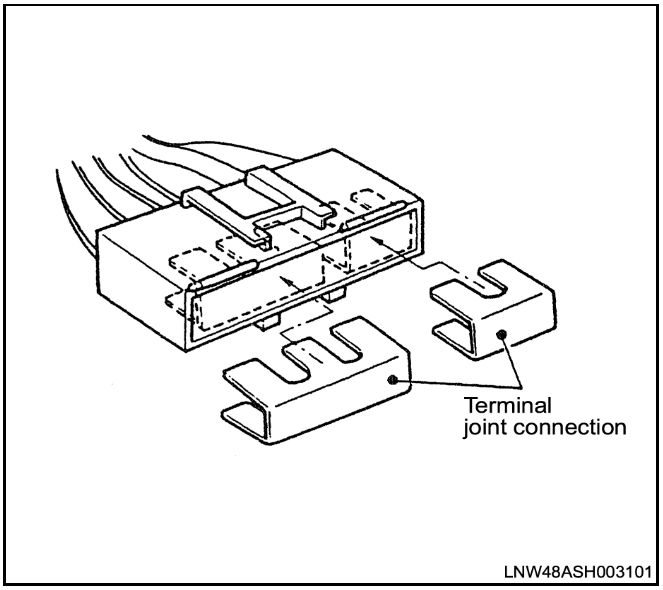
4495892

Connector Symbol

Connector Symbol	Harness name
B	Body (Inst.) Harness
D	Door Harness
E	Engine Harness
H	For Joint between Harnesses
J	Frame Front and Frame Rear Harness
L	Dome Light Harness
N	Floor Harness (LH and RH)
P	Battery Harness
X	Body and Frame Front Harness

Joint Connection

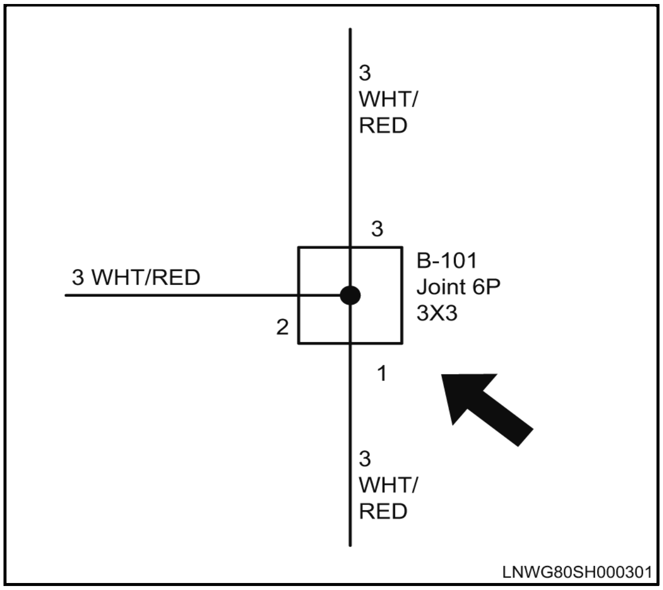
This connector has the structure of plural number of terminals collectively connected inside the connector.


Terminal
joint connection
LNW48ASH003101

4495894

How to show joint connection in the circuit diagram

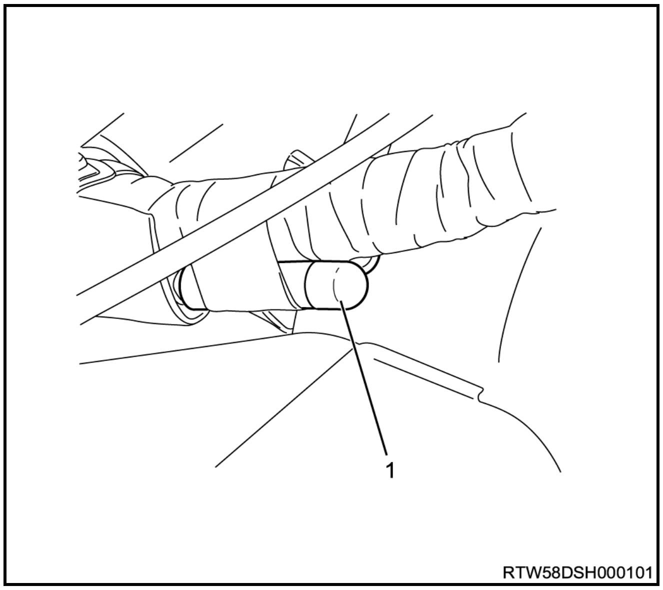
1. When joint connection can be shown as actual circuit diagram.


3
WHT/
RED
3
3 WHT/RED
B-101
Joint 6P
3X3
2
1
3
WHT/
RED
LNWG80SH000301

4495898

Weld Splice

Weld splice is a harness that welds the point of the harness and does joint.


1
RTW58DSH000101

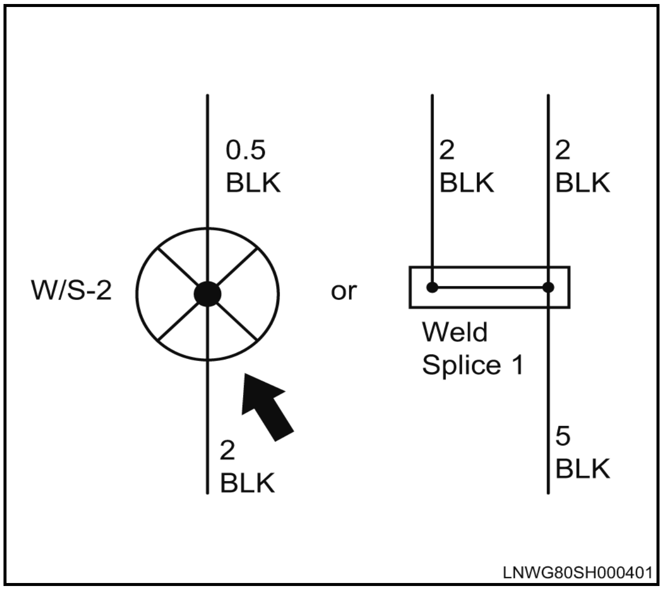
4495896

Legend

(1) Weld Splice

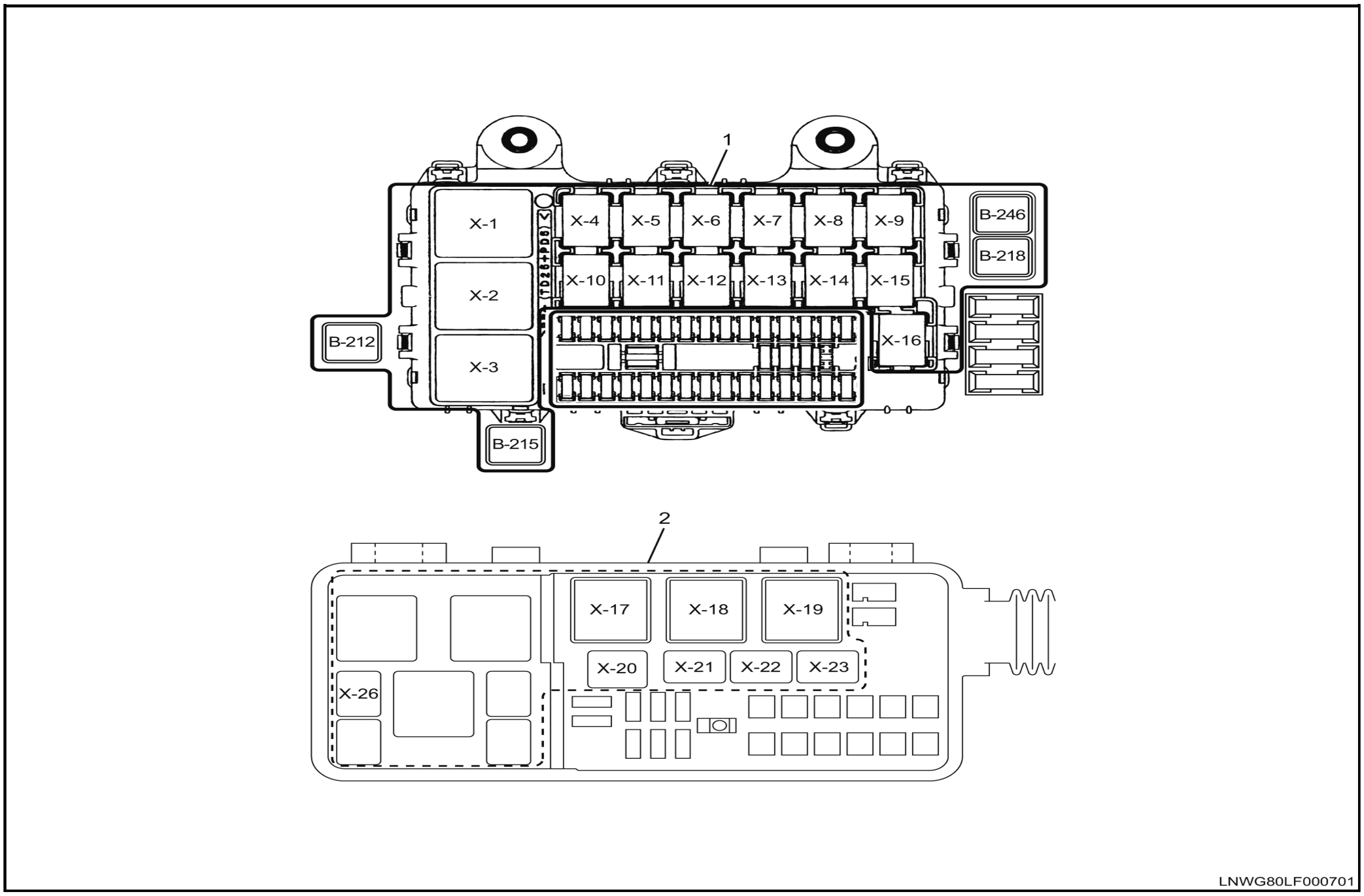
How to show weld splice in the circuit diagram

1. When weld splice can be shown as actual circuit diagram.


0.5
BLK
W/S-2
2
BLK
or
2
BLK
2
BLK
Weld
Splice 1
5
BLK
LNWG80SH000401

4495899

Relay Location


1
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
B-246
B-218
B-212
B-215
2
X-17
X-18
X-19
X-20
X-21
X-22
X-23
X-26
LNWG80LF000701

4499588

Legend

(1) Cab Junction Block

(2) Relay Box

Relay List

Connector No.	Relay Name
X-1	Stoplight
X-2	Daytime Running Light
X-3	Key On
X-4	TCM
X-5	P/N Start
X-6	Wiper Main
X-7	Horn
X-8	Wiper High/Low
X-9	Trailer Brake
X-10	Rear Power Window
X-11	Charge
X-12	Front Power Window
X-13	Headlight (Low)
X-14	Vacuum Pump
X-15	Headlight (High)

Relay List (cont'd)

Connector No.	Relay Name
X-16	Taillight
B-212	Power Accessory
B-215	Blower
B-218	Cigarette Lighter
B-246	Cornering Light
X-17	Starter
X-20	Magnetic Clutch
X-21	Condenser Fan
X-22	Fuel Pump
X-23	Rear Dome Light
X-26	Marker Light
X-28	PCM Main
X-30	A/C Enable

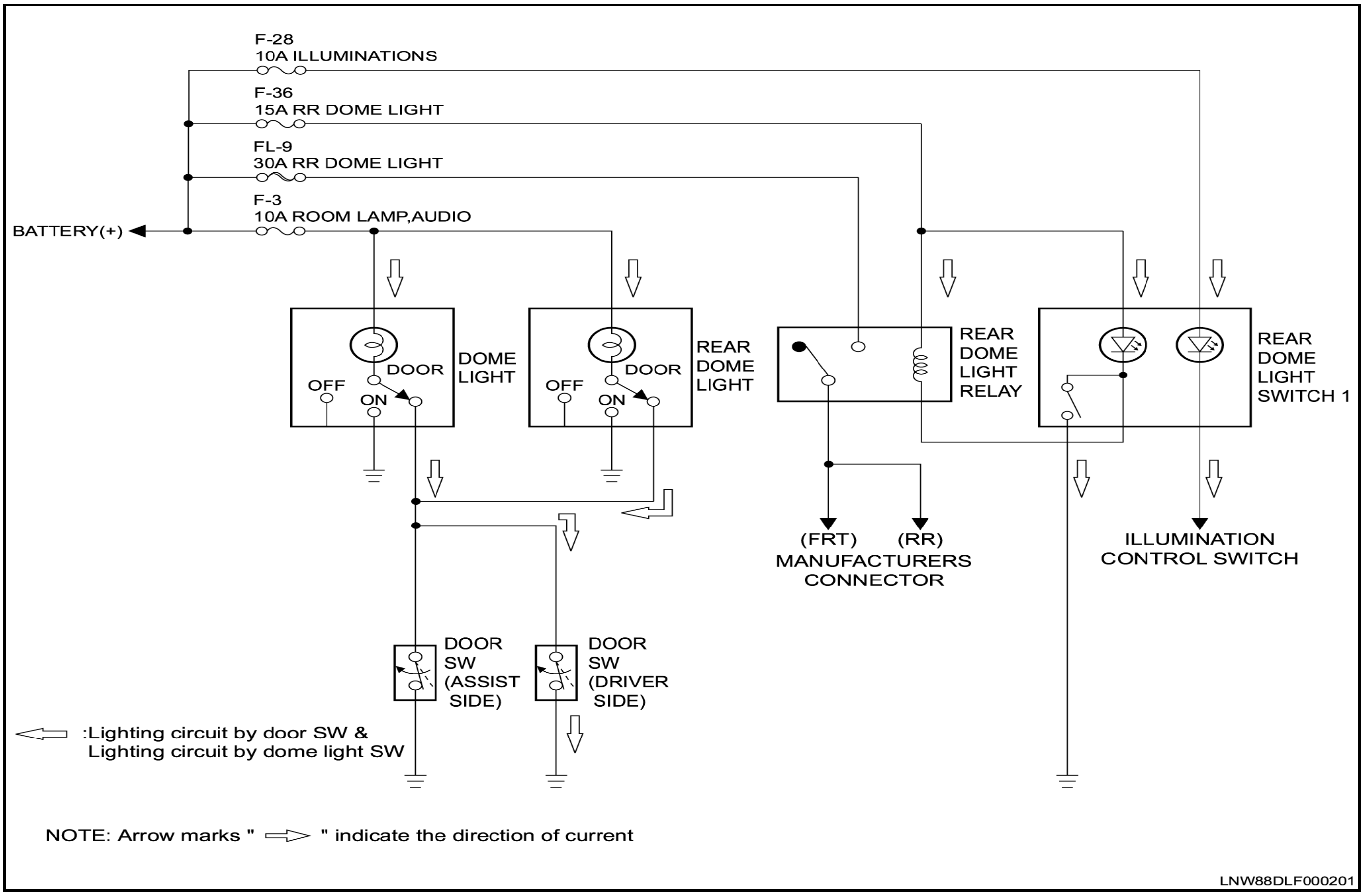
Description and Operation

Exterior Lights Circuit Description

The circuit consists of lights (headlight, side marker light clearance light, parking light, turn signal light [front, side and rear], cornering light, identification light, stoplight, taillight, backup light and license plate light), switches (ignition switch, combination switch, hazard warning flasher switch, illumination control switch, brake switch, backup light switch and manual shift shaft position switch), relays and other units.

The circuit has the DRL (Daytime Running Light) function. The DRL unit lights up the headlight automatically when the engine is running and the parking brake is released. When the lighting switch is turned to the headlight ON position, the DRL unit turns OFF the headlight.

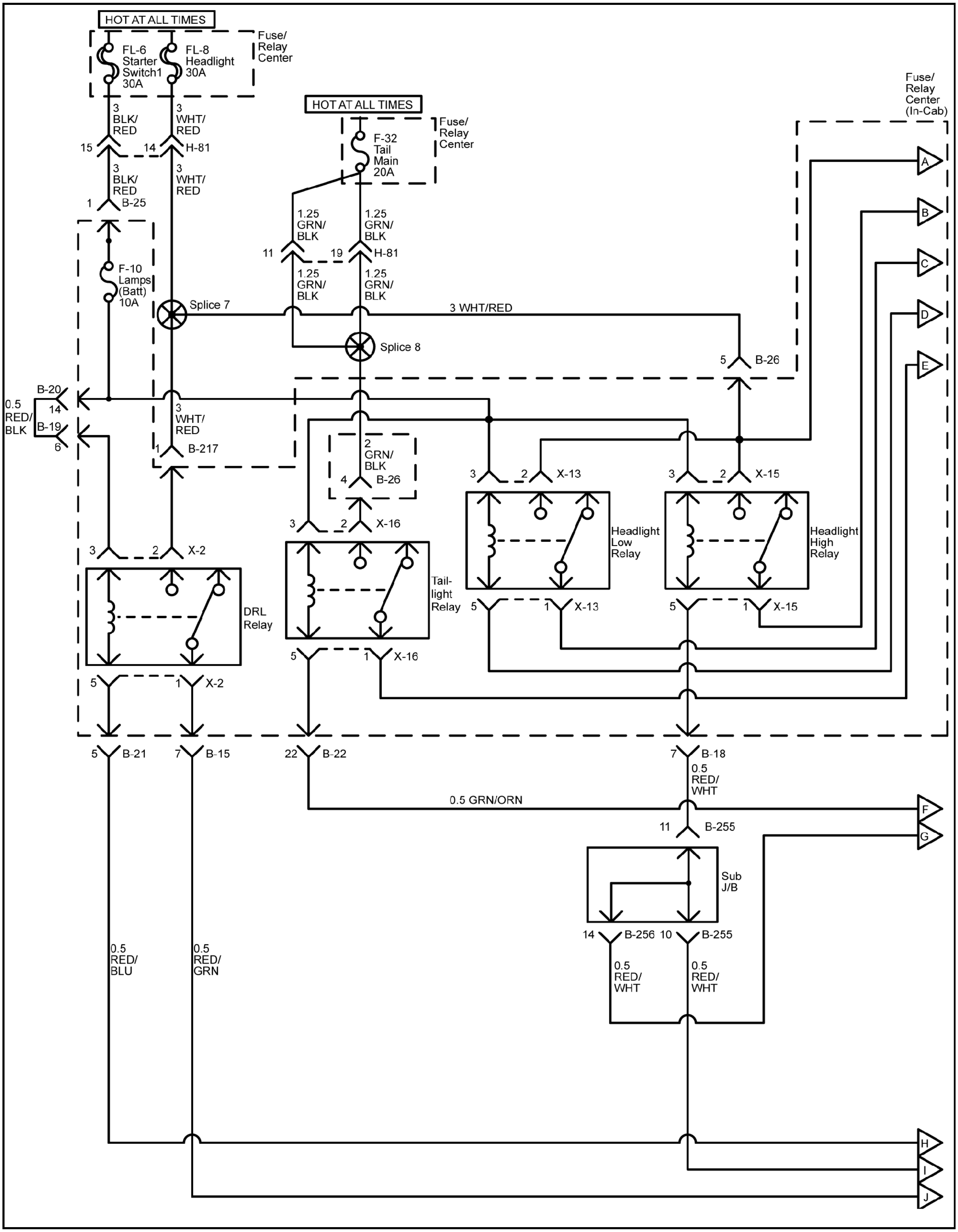
The combination switch consists of the lighting switch, the dimmer switch and the turn signal light switch. Each of lights are operated by the combination switch or other switches.


F-28
10A ILLUMINATIONS
F-36
15A RR DOME LIGHT
FL-9
30A RR DOME LIGHT
F-3
10A ROOM LAMP,AUDIO
BATTERY(+)
OFF
DOOR
ON
DOME LIGHT
OFF
DOOR
ON
REAR DOME LIGHT
REAR DOME LIGHT RELAY
REAR DOME LIGHT SWITCH 1
(FRT) (RR)
MANUFACTURERS CONNECTOR
ILLUMINATION CONTROL SWITCH
DOOR SW (ASSIST SIDE)
DOOR SW (DRIVER SIDE)
:Lighting circuit by door SW & Lighting circuit by dome light SW
NOTE: Arrow marks " ⇨ " indicate the direction of current
LNW88DLF000201

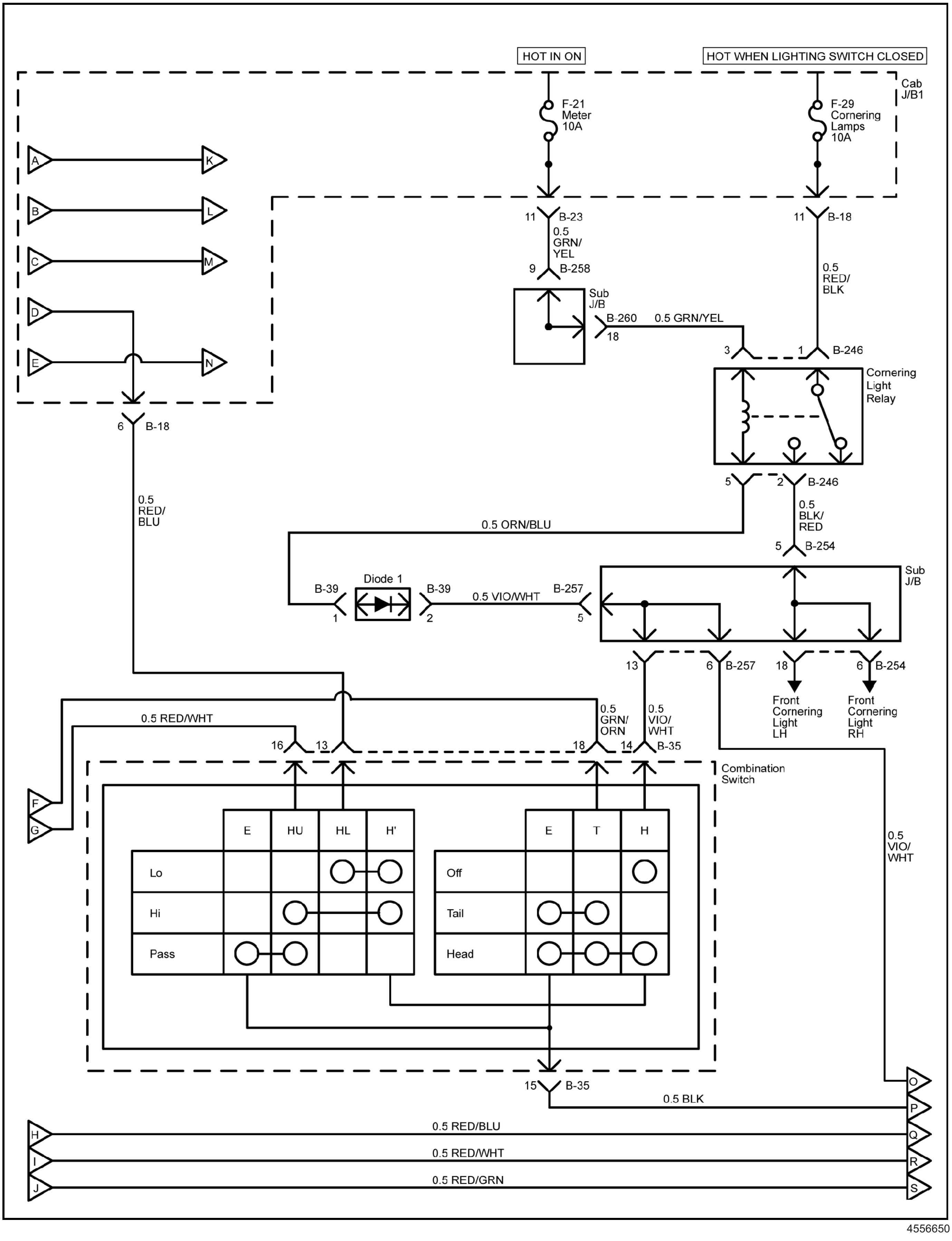
4502664

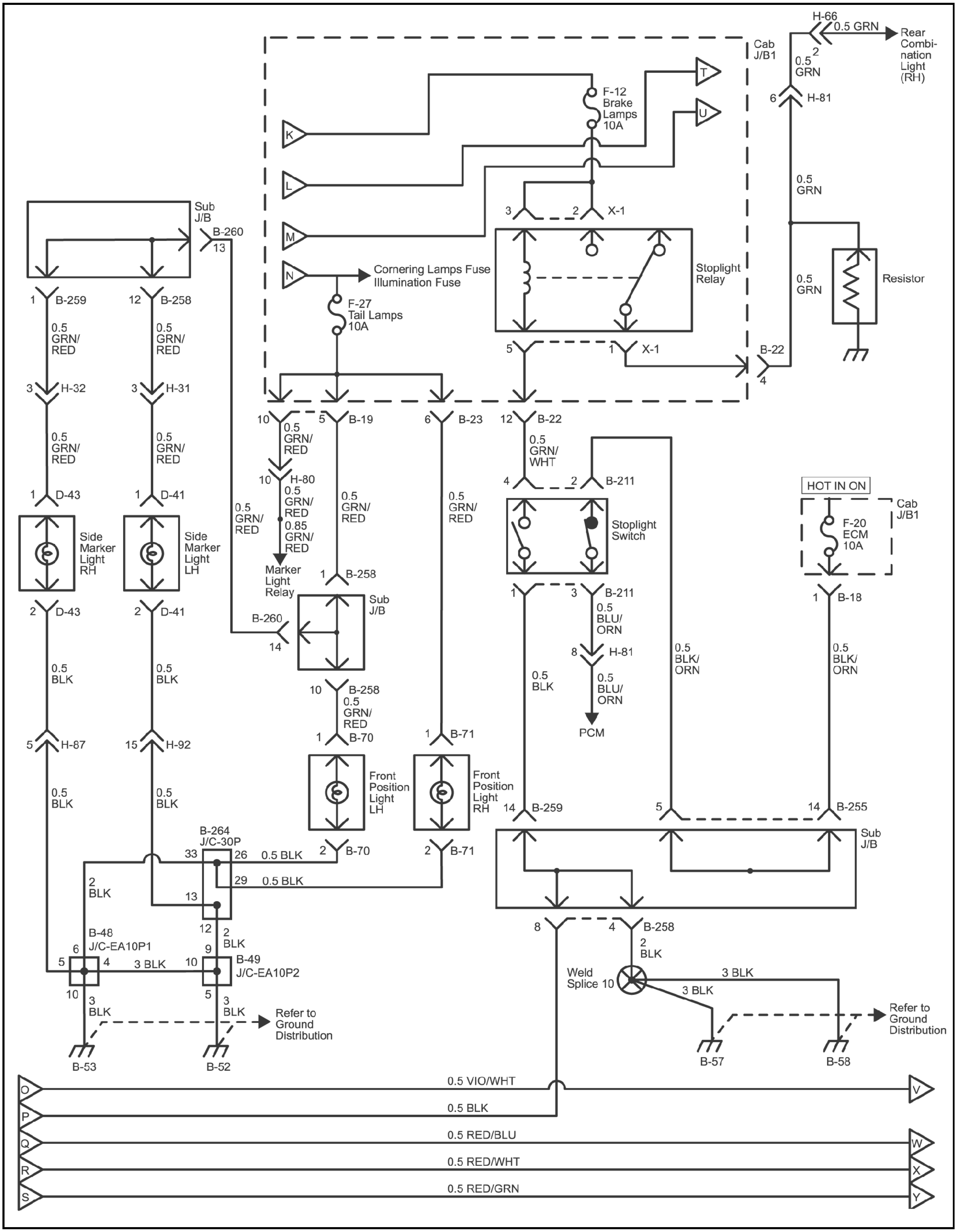
Schematic and Routing Diagrams

Exterior Lights Schematics

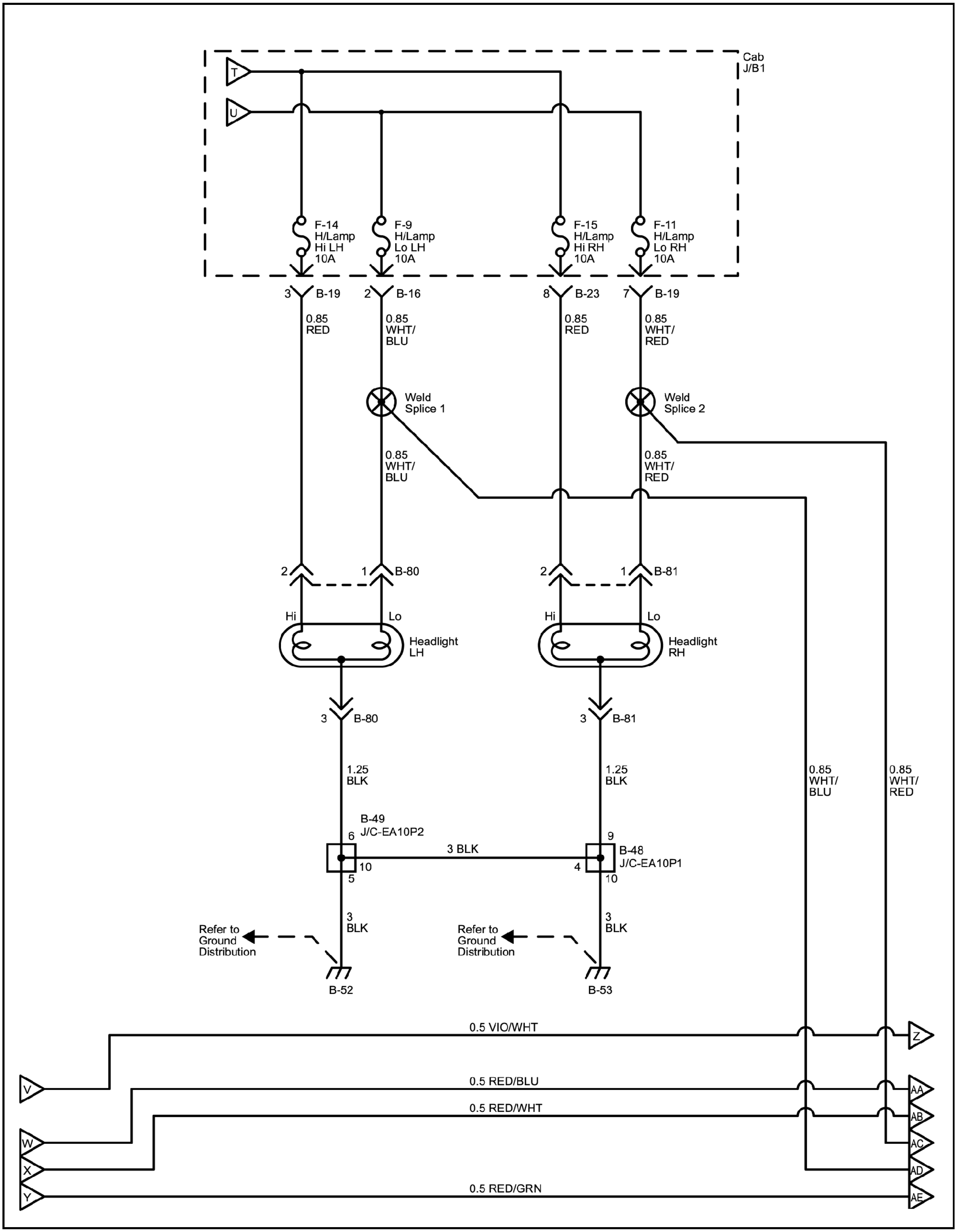

HOT AT ALL TIMES
FL-6 Starter Switch1 30A
FL-8 Headlight 30A
Fuse/ Relay Center
3 BLK/ RED
3 WHT/ RED
15
14
H-81
3 BLK/ RED
3 WHT/ RED
1 B-25
HOT AT ALL TIMES
F-32 Tail Main 20A
Fuse/ Relay Center
Fuse/ Relay Center (In-Cab)
1.25 GRN/ BLK
1.25 GRN/ BLK
11
19
H-81
1.25 GRN/ BLK
1.25 GRN/ BLK
F-10 Lamps (Batt) 10A
Splice 7
3 WHT/RED
Splice 8
5 B-26
B-20
14
0.5 RED/ BLK
B-19
6
3 WHT/ RED
1 B-217
2 GRN/ BLK
4 B-26
3
2 X-13
3
2 X-15
3
2 X-16
3
2 X-2
Headlight Low Relay
Headlight High Relay
Tail- light Relay
DRL Relay
5
1 X-13
5
1 X-15
5
1 X-16
5
1 X-2
A
B
C
D
E
5 B-21
7 B-15
22 B-22
7 B-18
0.5 RED/ WHT
0.5 GRN/ORN
F
G
11 B-255
Sub J/B
14 B-256
10 B-255
0.5 RED/ BLU
0.5 RED/ GRN
0.5 RED/ WHT
0.5 RED/ WHT
H
I
J

4556633

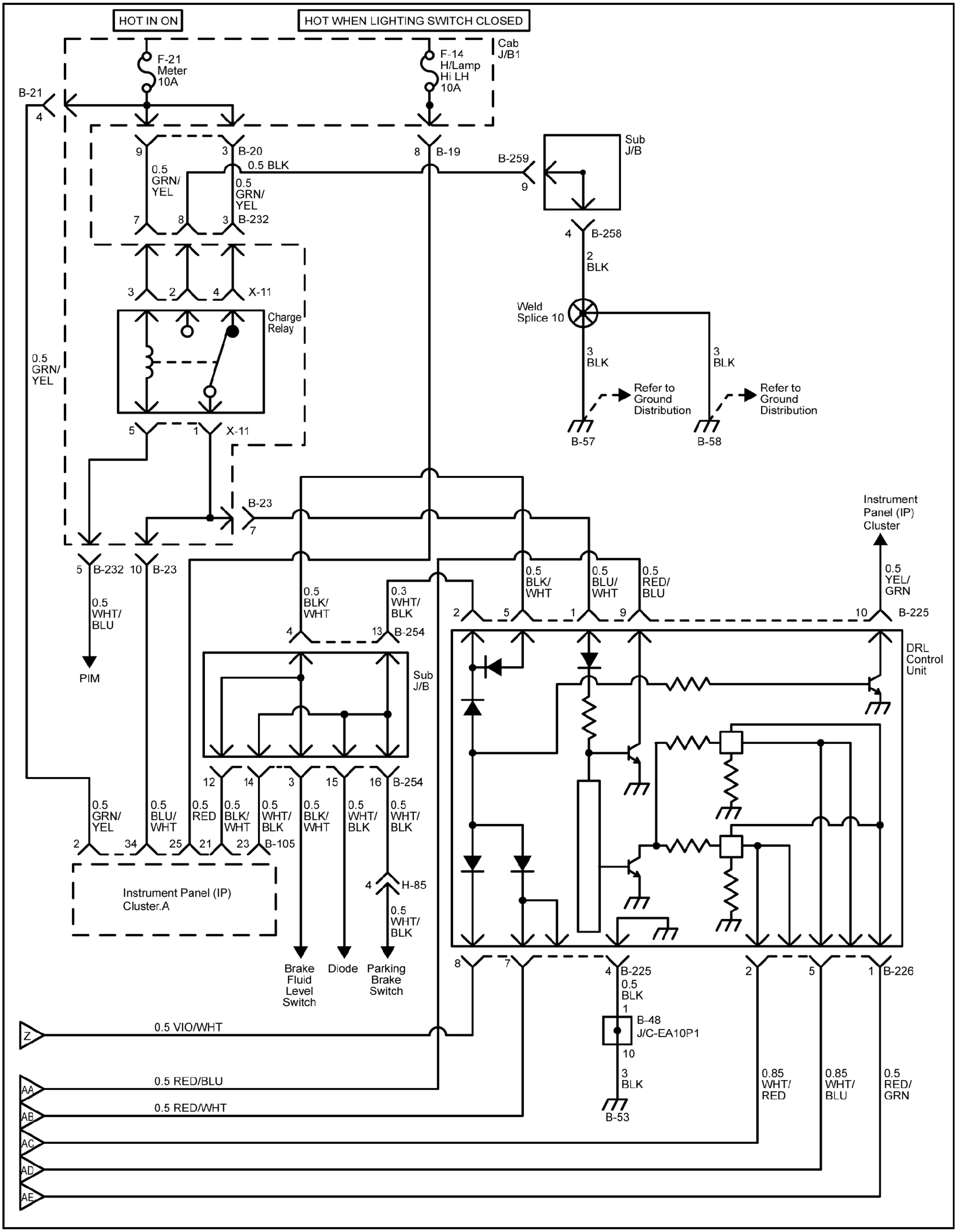

HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-21 Meter 10A
F-29 Cornering Lamps 10A
A
B
C
D
E
K
L
M
N
6 B-18
0.5 RED/BLU
11 B-23
0.5 GRN/YEL
9 B-258
11 B-18
0.5 RED/BLK
Sub J/B
B-260 18
0.5 GRN/YEL
3 1 B-246
Cornering Light Relay
5 2 B-246
0.5 BLK/RED
5 B-254
0.5 ORN/BLU
B-39 1
Diode 1
B-39 2
0.5 VIO/WHT
B-257 5
Sub J/B
13 6 B-257
18 6 B-254
Front Cornering Light LH
Front Cornering Light RH
0.5 GRN/ORN
0.5 VIO/WHT
0.5 RED/WHT
16 13 18 14 B-35
Combination Switch
E HU HL H'
Lo
Hi
Pass
E T H
Off
Tail
Head
F
G
0.5 VIO/WHT
15 B-35
0.5 BLK
O
P
H
0.5 RED/BLU
Q
I
0.5 RED/WHT
R
J
0.5 RED/GRN
S
4556650


H-66
0.5 GRN
Rear Combi-nation Light (RH)
2
Cab J/B1
0.5 GRN
6
H-81
T
U
F-12 Brake Lamps 10A
K
L
M
N
3
2
X-1
0.5 GRN
Sub J/B
B-260
13
Cornering Lamps Fuse Illumination Fuse
F-27 Tail Lamps 10A
Stoplight Relay
0.5 GRN
Resistor
1
B-259
12
B-258
0.5 GRN/ RED
0.5 GRN/ RED
5
1
X-1
B-22
4
3
H-32
3
H-31
10
5
B-19
6
B-23
12
B-22
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ WHT
10
H-80
0.5 GRN/ RED
0.85 GRN/ RED
4
2
B-211
1
D-43
1
D-41
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ RED
HOT IN ON
Cab J/B1
Side Marker Light RH
Side Marker Light LH
Marker Light Relay
Stoplight Switch
F-20 ECM 10A
1
B-258
Sub J/B
1
3
B-211
1
B-18
2
D-43
2
D-41
B-260
14
0.5 BLU/ ORN
8
H-81
0.5 BLK/ ORN
0.5 BLK/ ORN
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLU/ ORN
10
B-258
0.5 GRN/ RED
PCM
1
B-70
1
B-71
5
H-87
15
H-92
Front Position Light LH
Front Position Light RH
0.5 BLK
0.5 BLK
14
B-259
5
14
B-255
B-264 J/C-30P
33
26
0.5 BLK
2
B-70
2
B-71
Sub J/B
29
0.5 BLK
2 BLK
13
12
2 BLK
8
4
B-258
2 BLK
B-48 J/C-EA10P1
6
9
B-49 J/C-EA10P2
5
4
3 BLK
10
Weld Splice 10
3 BLK
3 BLK
10
3 BLK
5
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-53
B-52
B-57
B-58
O
0.5 VIO/WHT
V
P
0.5 BLK
Q
0.5 RED/BLU
W
R
0.5 RED/WHT
X
S
0.5 RED/GRN
Y

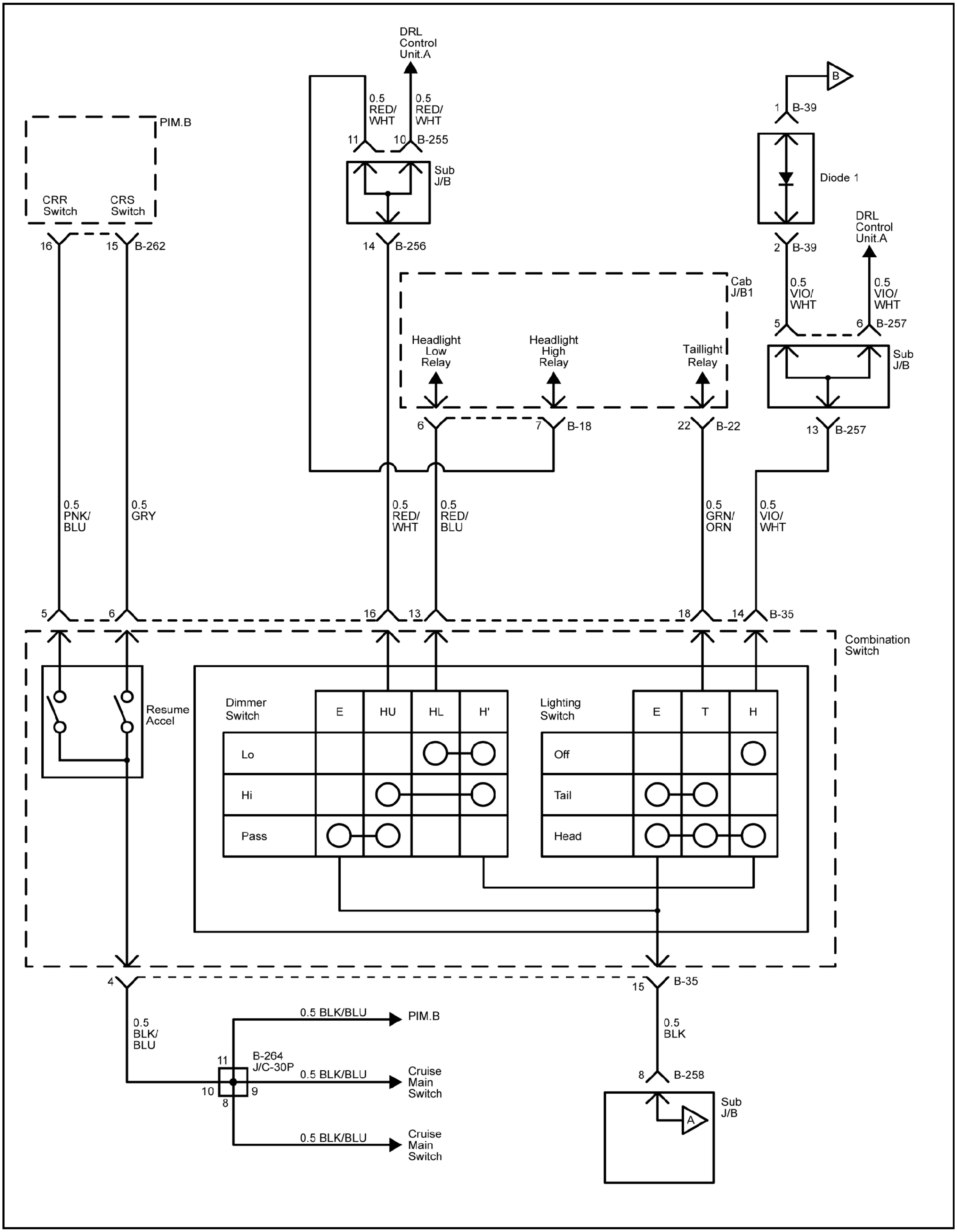
4556686


Cab
J/B1
T
U
F-14
H/Lamp
Hi LH
10A
F-9
H/Lamp
Lo LH
10A
F-15
H/Lamp
Hi RH
10A
F-11
H/Lamp
Lo RH
10A
3 B-19
2 B-16
8 B-23
7 B-19
0.85
RED
0.85
WHT/
BLU
0.85
RED
0.85
WHT/
RED
Weld
Splice 1
Weld
Splice 2
0.85
WHT/
BLU
0.85
WHT/
RED
2
1 B-80
2
1 B-81
Hi
Lo
Headlight
LH
Hi
Lo
Headlight
RH
3 B-80
3 B-81
1.25
BLK
1.25
BLK
0.85
WHT/
BLU
0.85
WHT/
RED
B-49
J/C-EA10P2
6
10
5
3 BLK
9
4
B-48
J/C-EA10P1
10
3
BLK
3
BLK
Refer to
Ground
Distribution
Refer to
Ground
Distribution
B-52
B-53
0.5 VIO/WHT
Z
V
0.5 RED/BLU
AA
0.5 RED/WHT
AB
W
AC
X
AD
Y
0.5 RED/GRN
AE

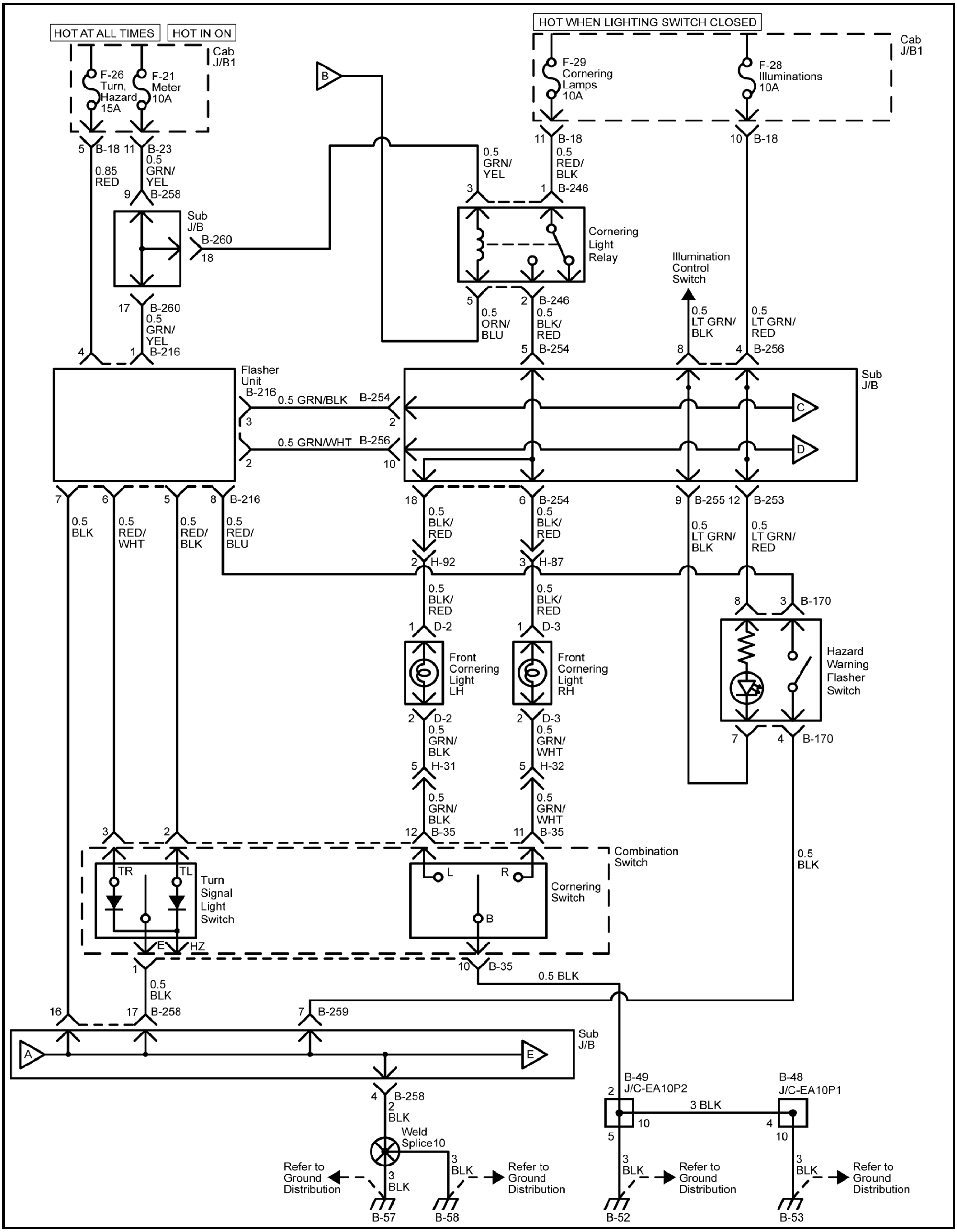
4556692


HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-21 Meter 10A
F-14 H/Lamp Hi LH 10A
B-21
4
9
3
B-20
8
B-19
0.5 BLK
B-259
9
Sub J/B
0.5 GRN/ YEL
0.5 GRN/ YEL
7
8
3
B-232
4
B-258
2 BLK
3
2
4
X-11
Charge Relay
Weld Splice 10
0.5 GRN/ YEL
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58
5
1
X-11
B-23
7
Instrument Panel (IP) Cluster
5
B-232
10
B-23
0.5 WHT/ BLU
PIM
0.5 BLK/ WHT
0.3 WHT/ BLK
0.5 BLK/ WHT
0.5 BLU/ WHT
0.5 RED/ BLU
0.5 YEL/ GRN
2
5
1
9
10
B-225
4
13
B-254
DRL Control Unit
Sub J/B
12
14
3
15
16
B-254
0.5 GRN/ YEL
0.5 BLU/ WHT
0.5 RED
0.5 BLK/ WHT
0.5 WHT/ BLK
0.5 BLK/ WHT
0.5 WHT/ BLK
0.5 WHT/ BLK
2
34
25
21
23
B-105
4
H-85
0.5 WHT/ BLK
Instrument Panel (IP) Cluster.A
Brake Fluid Level Switch
Diode
Parking Brake Switch
8
7
4
B-225
0.5 BLK
2
5
1
B-226
1
B-48 J/C-EA10P1
10
3 BLK
B-53
Z
0.5 VIO/WHT
AA
0.5 RED/BLU
AB
0.5 RED/WHT
AC
AD
AE
0.85 WHT/ RED
0.85 WHT/ BLU
0.5 RED/ GRN

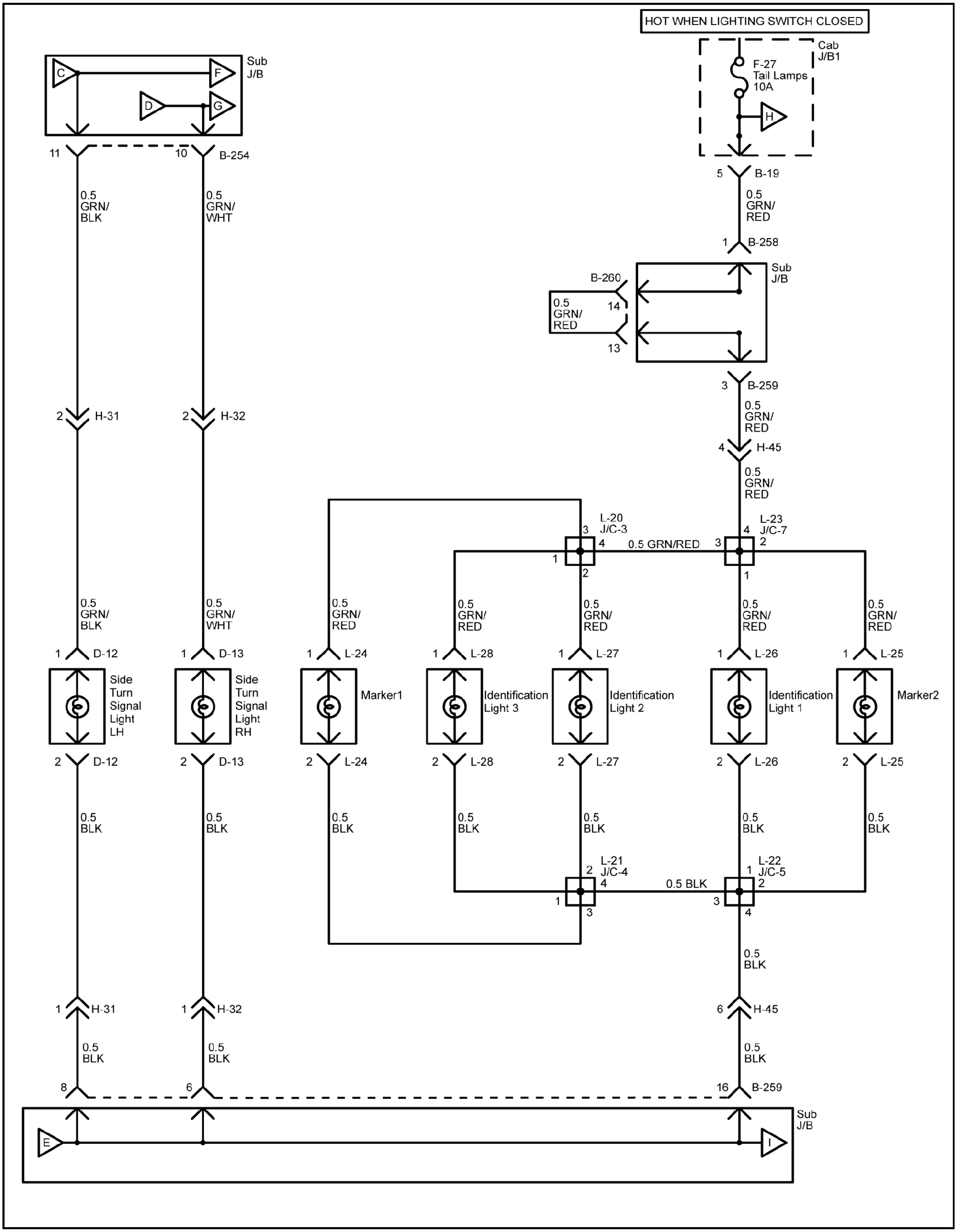
4556704


DRL
Control
Unit.A
0.5
RED/
WHT
0.5
RED/
WHT
11
10
B-255
Sub
J/B
14
B-256
PIM.B
CRR
Switch
CRS
Switch
16
15
B-262
B
1
B-39
Diode 1
2
B-39
DRL
Control
Unit.A
0.5
VIO/
WHT
0.5
VIO/
WHT
5
6
B-257
Sub
J/B
13
B-257
Cab
J/B1
Headlight
Low
Relay
Headlight
High
Relay
Taillight
Relay
6
7
B-18
22
B-22
0.5
PNK/
BLU
0.5
GRY
0.5
RED/
WHT
0.5
RED/
BLU
0.5
GRN/
ORN
0.5
VIO/
WHT
5
6
16
13
18
14
B-35
Combination
Switch
Resume
Accel
Dimmer
Switch
E
HU
HL
H'
Lo
Hi
Pass
Lighting
Switch
E
T
H
Off
Tail
Head
4
15
B-35
0.5
BLK/
BLU
0.5 BLK/BLU
PIM.B
11
B-264
J/C-30P
10
9
8
0.5 BLK/BLU
Cruise
Main
Switch
0.5 BLK/BLU
Cruise
Main
Switch
0.5
BLK
8
B-258
A
Sub
J/B

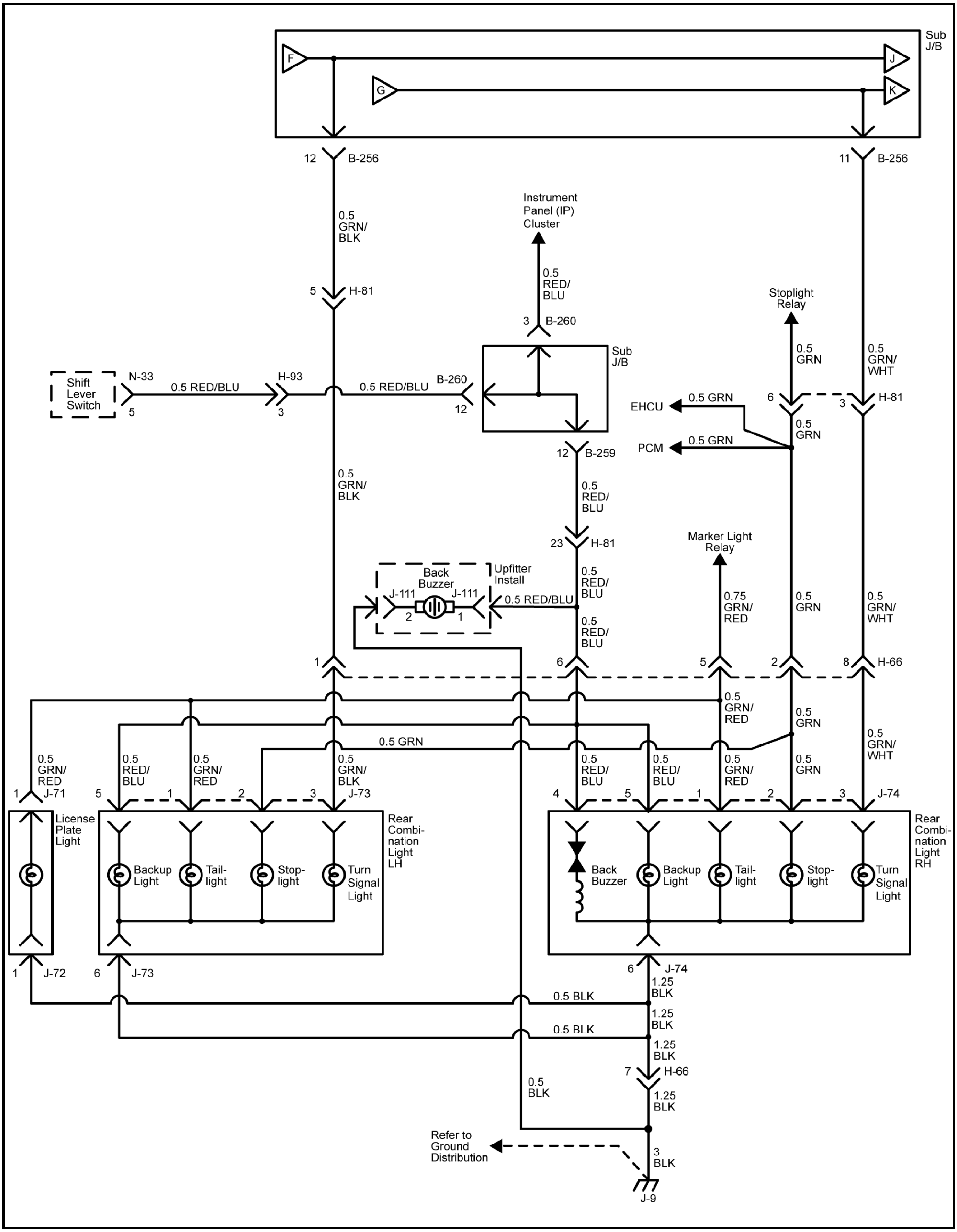
4556715


HOT AT ALL TIMES
HOT IN ON
Cab J/B1
F-26 Turn, Hazard 15A
F-21 Meter 10A
B
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-29 Cornering Lamps 10A
F-28 Illuminations 10A
5 B-18 11 B-23
0.85 RED
0.5 GRN/YEL
9 B-258
Sub J/B
B-260 18
11 B-18
0.5 RED/BLK
10 B-18
0.5 GRN/YEL
3
1 B-246
Cornering Light Relay
Illumination Control Switch
5
2 B-246
0.5 ORN/BLU
0.5 BLK/RED
17 B-260
0.5 GRN/YEL
4
1 B-216
5 B-254
0.5 LT GRN/BLK
8
0.5 LT GRN/RED
4 B-256
Flasher Unit
B-216
0.5 GRN/BLK
B-254
3
2
0.5 GRN/WHT
B-256
2
10
Sub J/B
C
D
7 6 5 8 B-216
0.5 BLK
0.5 RED/WHT
0.5 RED/BLK
0.5 RED/BLU
18
6 B-254
0.5 BLK/RED
0.5 BLK/RED
9 B-255 12 B-253
0.5 LT GRN/BLK
0.5 LT GRN/RED
2 H-92
3 H-87
0.5 BLK/RED
0.5 BLK/RED
8
3 B-170
1 D-2
1 D-3
Front Cornering Light LH
Front Cornering Light RH
Hazard Warning Flasher Switch
2 D-2
0.5 GRN/BLK
2 D-3
0.5 GRN/WHT
7
4 B-170
5 H-31
5 H-32
0.5 GRN/BLK
0.5 GRN/WHT
12 B-35
11 B-35
3
2
Combination Switch
0.5 BLK
TR
TL
Turn Signal Light Switch
E
HZ
L
R
B
Cornering Switch
1
0.5 BLK
10 B-35
0.5 BLK
16
17 B-258
7 B-259
Sub J/B
A
E
4 B-258
2 BLK
Weld Splice10
B-49 J/C-EA10P2
2
3 BLK
10
5
B-48 J/C-EA10P1
4
10
Refer to Ground Distribution
3 BLK
3 BLK
Refer to Ground Distribution
3 BLK
Refer to Ground Distribution
3 BLK
Refer to Ground Distribution
B-57
B-58
B-52
B-53

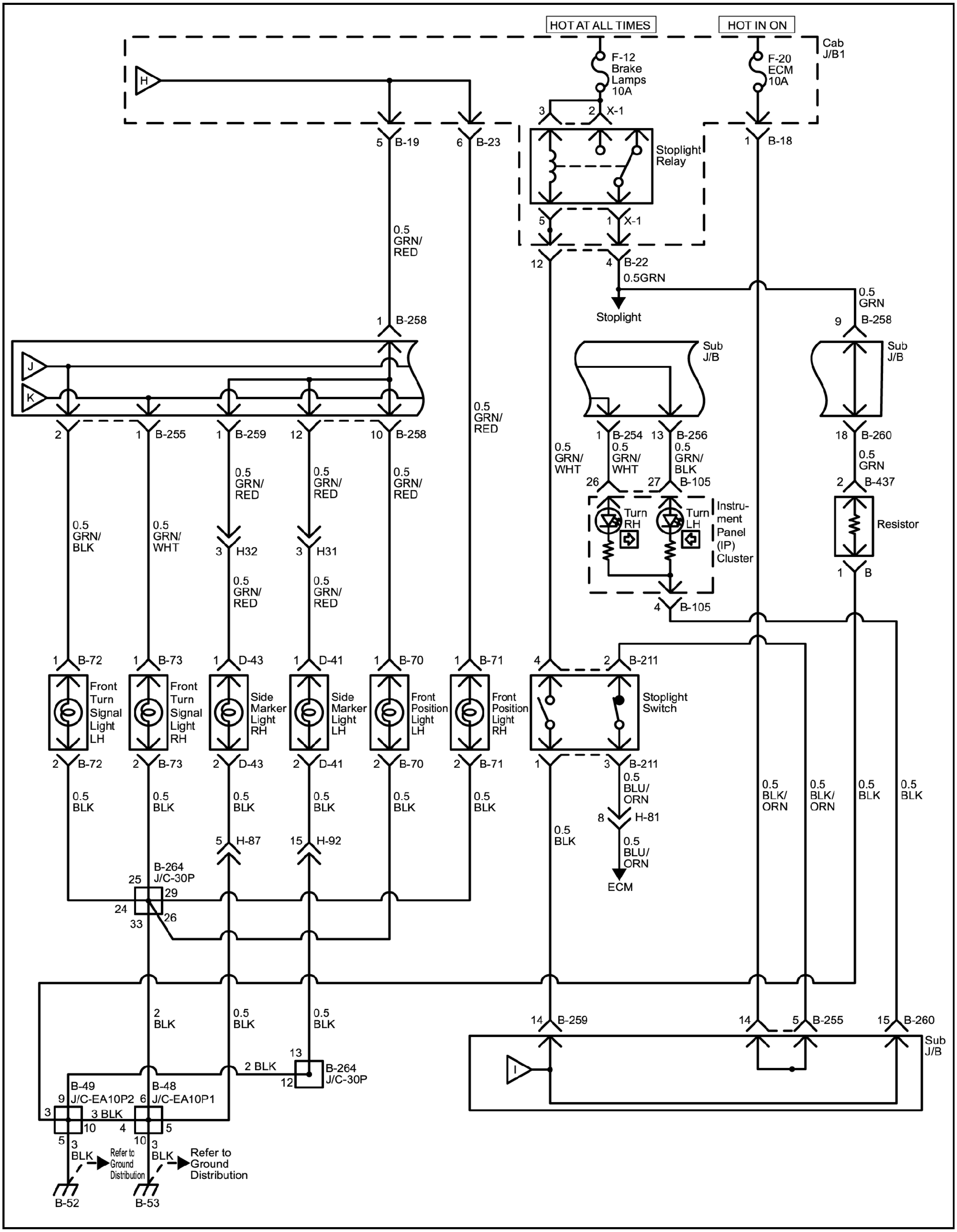
4556717


HOT WHEN LIGHTING SWITCH CLOSED
Cab
J/B1
F-27
Tail Lamps
10A
H
5 B-19
0.5
GRN/
RED
1 B-258
Sub
J/B
B-260
0.5
GRN/
RED
14
13
3 B-259
0.5
GRN/
RED
4 H-45
0.5
GRN/
RED
L-20
J/C-3
L-23
J/C-7
0.5 GRN/RED
Sub
J/B
C
F
D
G
11
10
B-254
0.5
GRN/
BLK
0.5
GRN/
WHT
2 H-31
2 H-32
1 D-12
1 D-13
1 L-24
1 L-28
1 L-27
1 L-26
1 L-25
Side
Turn
Signal
Light
LH
Side
Turn
Signal
Light
RH
Marker1
Identification
Light 3
Identification
Light 2
Identification
Light 1
Marker2
2 D-12
2 D-13
2 L-24
2 L-28
2 L-27
2 L-26
2 L-25
0.5
BLK
L-21
J/C-4
L-22
J/C-5
0.5 BLK
1 H-31
1 H-32
6 H-45
8
6
16 B-259
Sub
J/B
E
I

4556727


Sub J/B
F
J
G
K
12 B-256
11 B-256
0.5 GRN/ BLK
5 H-81
Instrument Panel (IP) Cluster
0.5 RED/ BLU
3 B-260
Sub J/B
Stoplight Relay
0.5 GRN
0.5 GRN/ WHT
Shift Lever Switch
N-33
5
0.5 RED/BLU
H-93
3
0.5 RED/BLU
B-260
12
6
3 H-81
EHCU
0.5 GRN
0.5 GRN
PCM
0.5 GRN
12 B-259
0.5 GRN/ BLK
0.5 RED/ BLU
23 H-81
Marker Light Relay
Back Buzzer
Upfitter Install
J-111
J-111
2
1
0.5 RED/BLU
0.5 RED/ BLU
0.75 GRN/ RED
0.5 GRN
0.5 GRN/ WHT
0.5 RED/ BLU
1
6
5
2
8 H-66
0.5 GRN/ RED
0.5 GRN
0.5 GRN
0.5 GRN/ WHT
0.5 GRN/ RED
0.5 RED/ BLU
0.5 GRN/ RED
0.5 GRN/ BLK
0.5 RED/ BLU
0.5 RED/ BLU
0.5 GRN/ RED
0.5 GRN
1 J-71
5
1
2
3 J-73
4
5
1
2
3 J-74
License Plate Light
Backup Light
Tail-light
Stop-light
Turn Signal Light
Rear Combi-nation Light LH
Back Buzzer
Backup Light
Tail-light
Stop-light
Turn Signal Light
Rear Combi-nation Light RH
1 J-72
6 J-73
6 J-74
1.25 BLK
0.5 BLK
1.25 BLK
0.5 BLK
1.25 BLK
7 H-66
0.5 BLK
1.25 BLK
Refer to Ground Distribution
3 BLK
J-9

4556793


HOT AT ALL TIMES
HOT IN ON
Cab J/B1
F-12 Brake Lamps 10A
F-20 ECM 10A
H
3 2 X-1
Stoplight Relay
5 1 X-1
5 B-19
6 B-23
1 B-18
12 4 B-22
0.5GRN
Stoplight
0.5 GRN
9 B-258
Sub J/B
0.5 GRN/ RED
1 B-258
J
K
2 1 B-255 1 B-259 12 10 B-258
0.5 GRN/ BLK
0.5 GRN/ WHT
0.5 GRN/ RED
3 H32
3 H31
1 B-254 13 B-256
18 B-260
0.5 GRN/ WHT
0.5 GRN/ BLK
26 27 B-105
2 B-437
Turn RH
Turn LH
Instru- ment Panel (IP) Cluster
Resistor
1 B
4 B-105
1 B-72
1 B-73
1 D-43
1 D-41
1 B-70
1 B-71
4 2 B-211
Front Turn Signal Light LH
Front Turn Signal Light RH
Side Marker Light RH
Side Marker Light LH
Front Position Light LH
Front Position Light RH
Stoplight Switch
2 B-72
2 B-73
2 D-43
2 D-41
2 B-70
2 B-71
1 3 B-211
0.5 BLK
0.5 BLU/ ORN
8 H-81
ECM
0.5 BLK/ ORN
5 H-87
15 H-92
B-264 J/C-30P
25 29 24 26 33
2 BLK
14 B-259
14 5 B-255
15 B-260
Sub J/B
I
13
B-264 J/C-30P
12
2 BLK
B-49 9 J/C-EA10P2
B-48 6 J/C-EA10P1
3 3 BLK 10 4 5
5 3 BLK
10 3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-52
B-53

4556834

Description and Operation

Wiper/Washer System Circuit Description

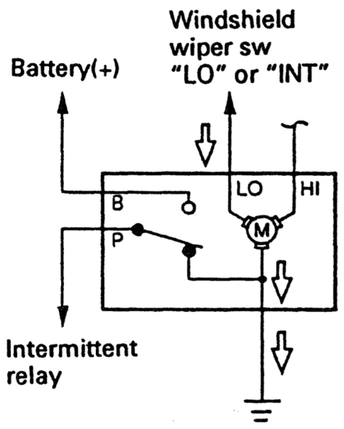
The circuit consists of the ignition switch, windshield wiper and washer switch, wiper motor, washer motor the intermittent relay horn switch and horn.

When the wiper and washer switch is turned on with starter switch on, the battery voltage is applied to the wiper motor to activate the wiper.

The washer motor squirts glass cleaning fluid while the washer switch is being pushed. The intermittent relay is used to control motion of the wiper.

Operation of Windshield Wiper Motor (When Wiper “LO” or “INT” Position)

1. Condition of wiper switch is “LO” or “INT” position (Wiper motor is starting to operate)

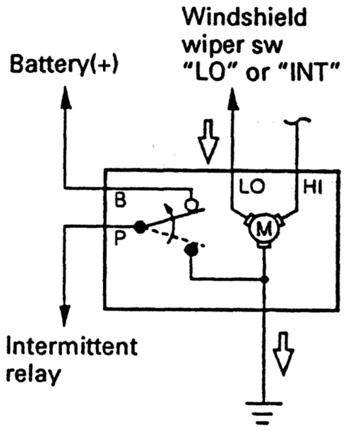

Windshield
wiper sw
“LO” or “INT”
Battery(+)
LO
HI
B
P
M
Intermittent
relay

NOTE: Arrow marks " ⇨ " indicate the direction of current.

LNW38ASH009301

4496571

2. Condition of wiper motor is operating

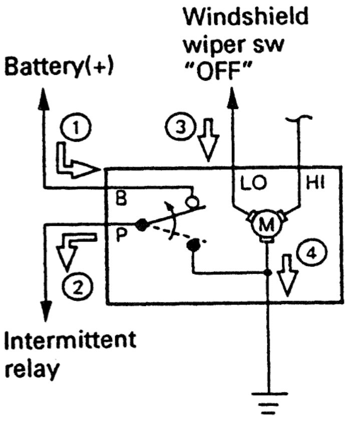

Windshield
wiper sw
“LO” or “INT”
Battery(+)
LO
HI
B
P
M
Intermittent
relay

NOTE: Arrow marks " ⇨ " indicate the direction of current.

LNW38ASH009401

4496576

3. Condition of wiper switch is just "OFF" (Wiper motor is still operating until auto-stop position)

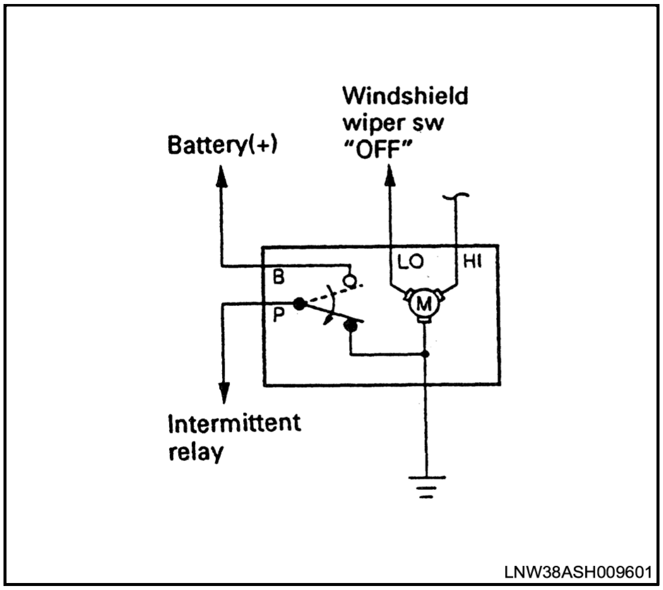

Windshield
wiper sw
“OFF”
Battery(+)
①
③
LO
HI
B
P
M
④
②
Intermittent
relay

NOTE: Arrow marks " ⇨ " indicate the direction of current.

LNW38ASH009501

4496574

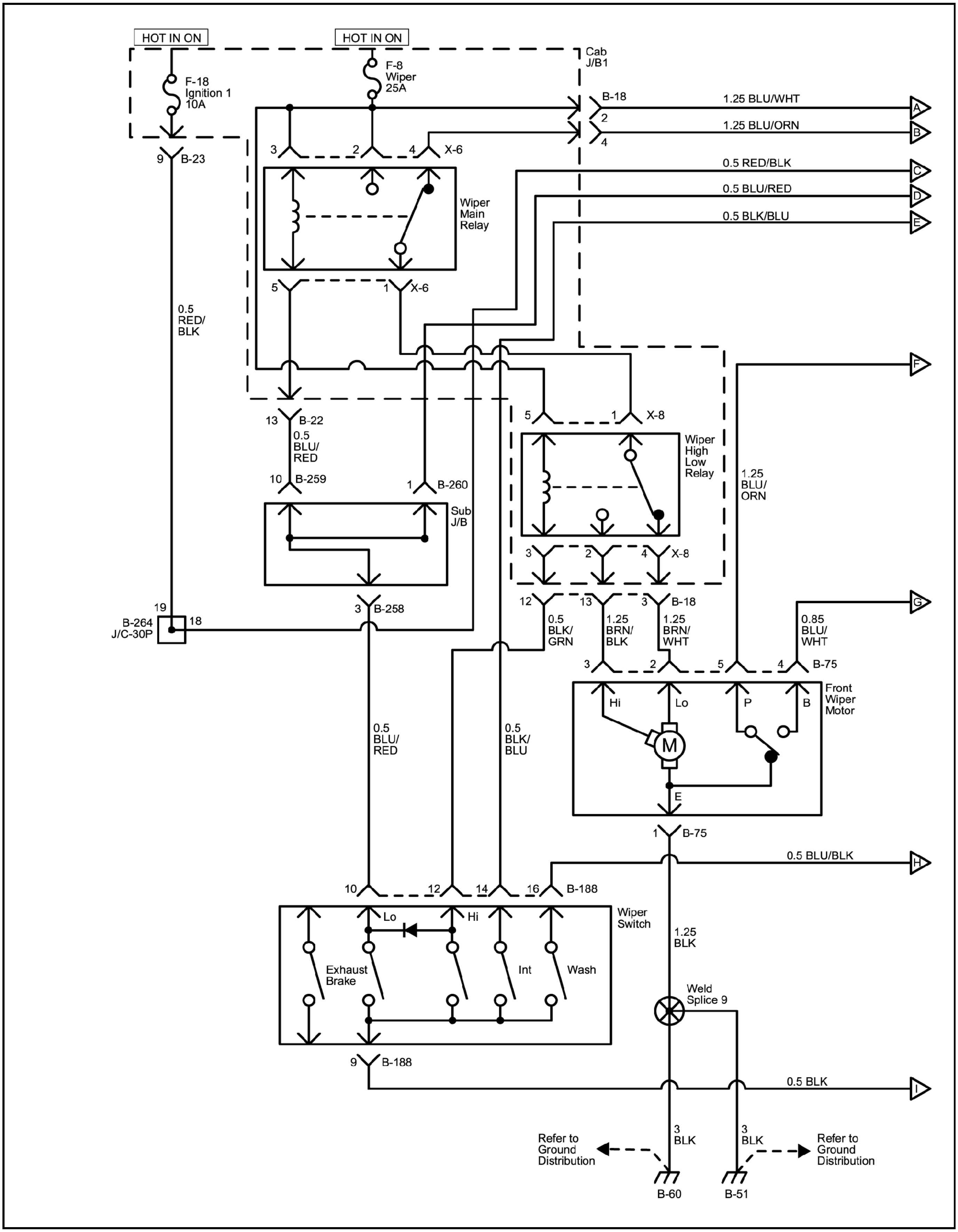
4. Wiper motor stops at auto-stop position


Windshield
wiper sw
"OFF"
Battery(+)
LO
HI
B
P
M
Intermittent
relay
LNW38ASH009601

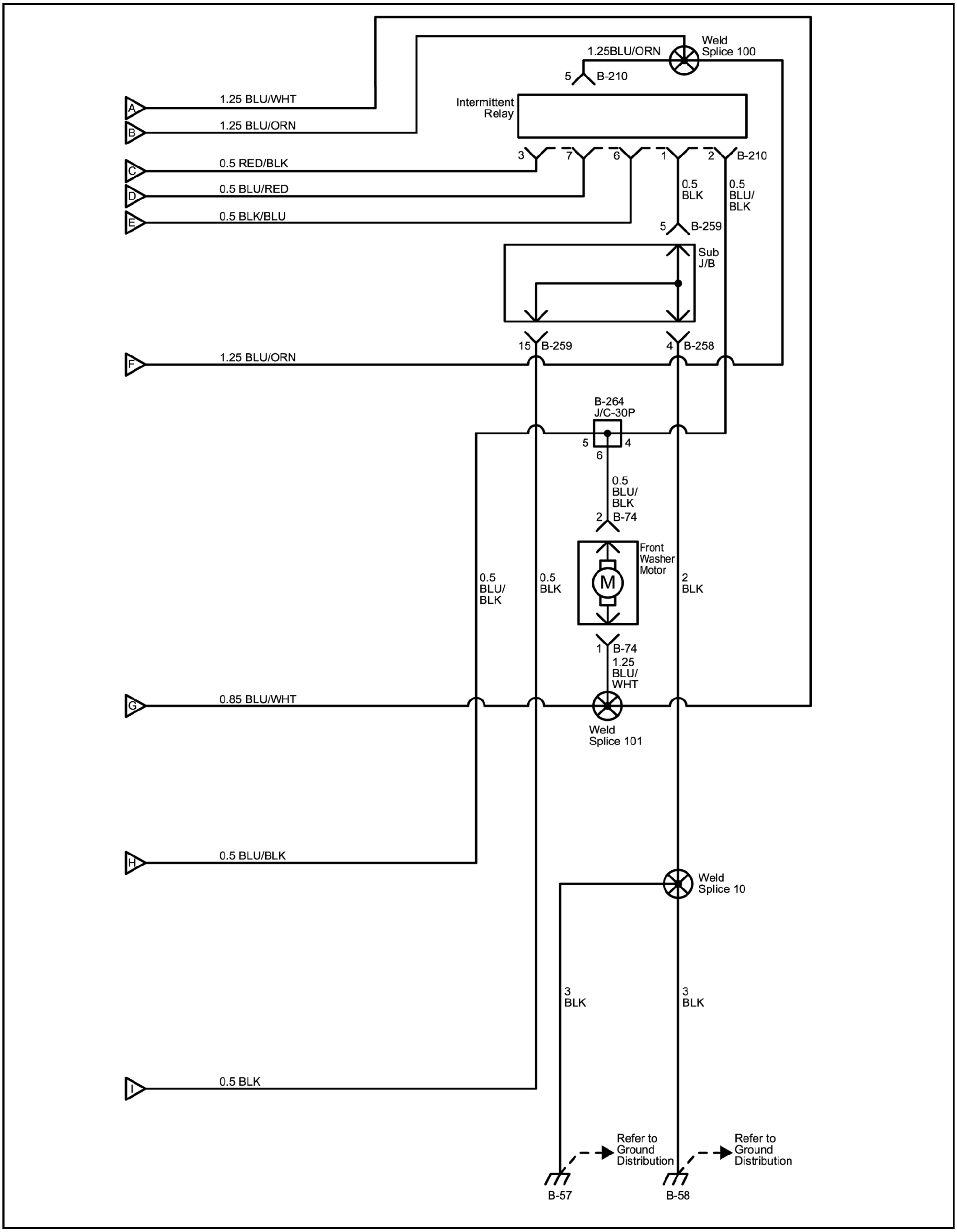
4496578

Schematic and Routing Diagrams

Wiper/Washer Schematics


HOT IN ON
HOT IN ON
F-18
Ignition 1
10A
F-8
Wiper
25A
Cab
J/B1
B-18
2
4
1.25 BLU/WHT
1.25 BLU/ORN
A
B
9
B-23
3
2
4
X-6
0.5 RED/BLK
0.5 BLU/RED
0.5 BLK/BLU
C
D
E
Wiper
Main
Relay
5
1
X-6
0.5
RED/
BLK
F
5
1
X-8
13
B-22
0.5
BLU/
RED
10
B-259
1
B-260
Wiper
High
Low
Relay
1.25
BLU/
ORN
Sub
J/B
3
2
4
X-8
19
B-264
J/C-30P
18
3
B-258
12
13
3
B-18
0.5
BLK/
GRN
1.25
BRN/
BLK
1.25
BRN/
WHT
G
0.85
BLU/
WHT
3
2
5
4
B-75
Front
Wiper
Motor
Hi
Lo
P
B
M
E
0.5
BLU/
RED
0.5
BLK/
BLU
1
B-75
0.5 BLU/BLK
H
10
12
14
16
B-188
Wiper
Switch
Lo
Hi
Exhaust
Brake
Int
Wash
1.25
BLK
Weld
Splice 9
9
B-188
0.5 BLK
I
3
BLK
3
BLK
Refer to
Ground
Distribution
Refer to
Ground
Distribution
B-60
B-51

4557022


Weld Splice 100
1.25BLU/ORN
5 B-210
Intermittent Relay
A 1.25 BLU/WHT
B 1.25 BLU/ORN
C 0.5 RED/BLK
D 0.5 BLU/RED
E 0.5 BLK/BLU
3 7 6 1 2 B-210
0.5 BLK
0.5 BLU/ BLK
5 B-259
Sub J/B
15 B-259
4 B-258
F 1.25 BLU/ORN
B-264 J/C-30P
5 4
6
0.5 BLU/ BLK
2 B-74
Front Washer Motor
M
0.5 BLU/ BLK
0.5 BLK
2 BLK
1 B-74
1.25 BLU/ WHT
G 0.85 BLU/WHT
Weld Splice 101
H 0.5 BLU/BLK
Weld Splice 10
3 BLK
3 BLK
I 0.5 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58

4557025

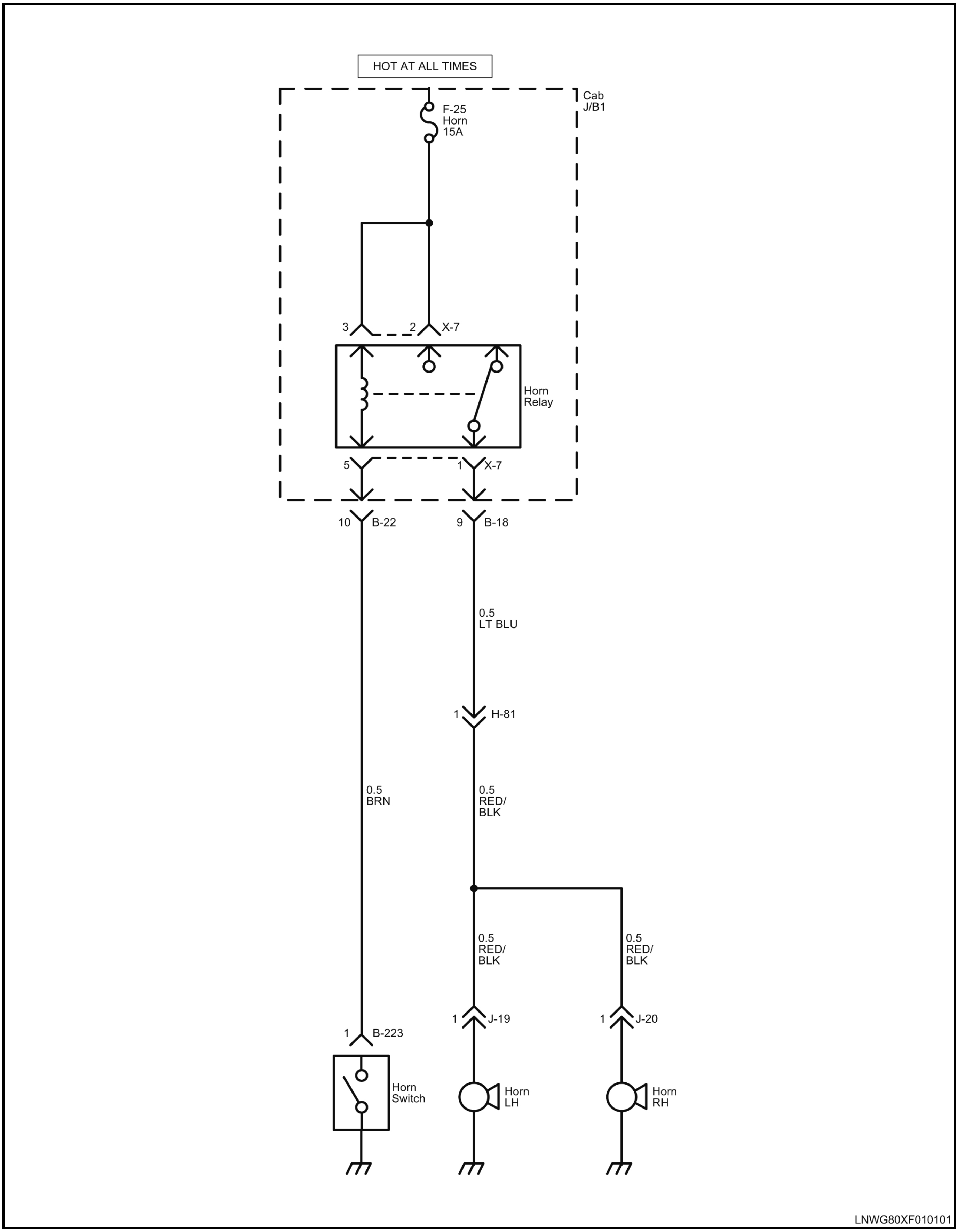
Description and Operation

Horns Circuit Description

The circuit consists of the horns, the horn switch and the relay. Horn operation is not dependent upon starter switch position. Pressing the horn pad (horn switch) activates the relay and causes the horns to sound.

Schematic and Routing Diagrams

Horn Schematics


HOT AT ALL TIMES
Cab
J/B1
F-25
Horn
15A
3
2
X-7
Horn
Relay
5
1
X-7
10
B-22
9
B-18
0.5
LT BLU
1
H-81
0.5
BRN
0.5
RED/
BLK
0.5
RED/
BLK
0.5
RED/
BLK
1
B-223
1
J-19
1
J-20
Horn
Switch
Horn
LH
Horn
RH
LNWG80XF010101

4496653

Description and Operation

Radio and Cigarette Lighter Circuit Description

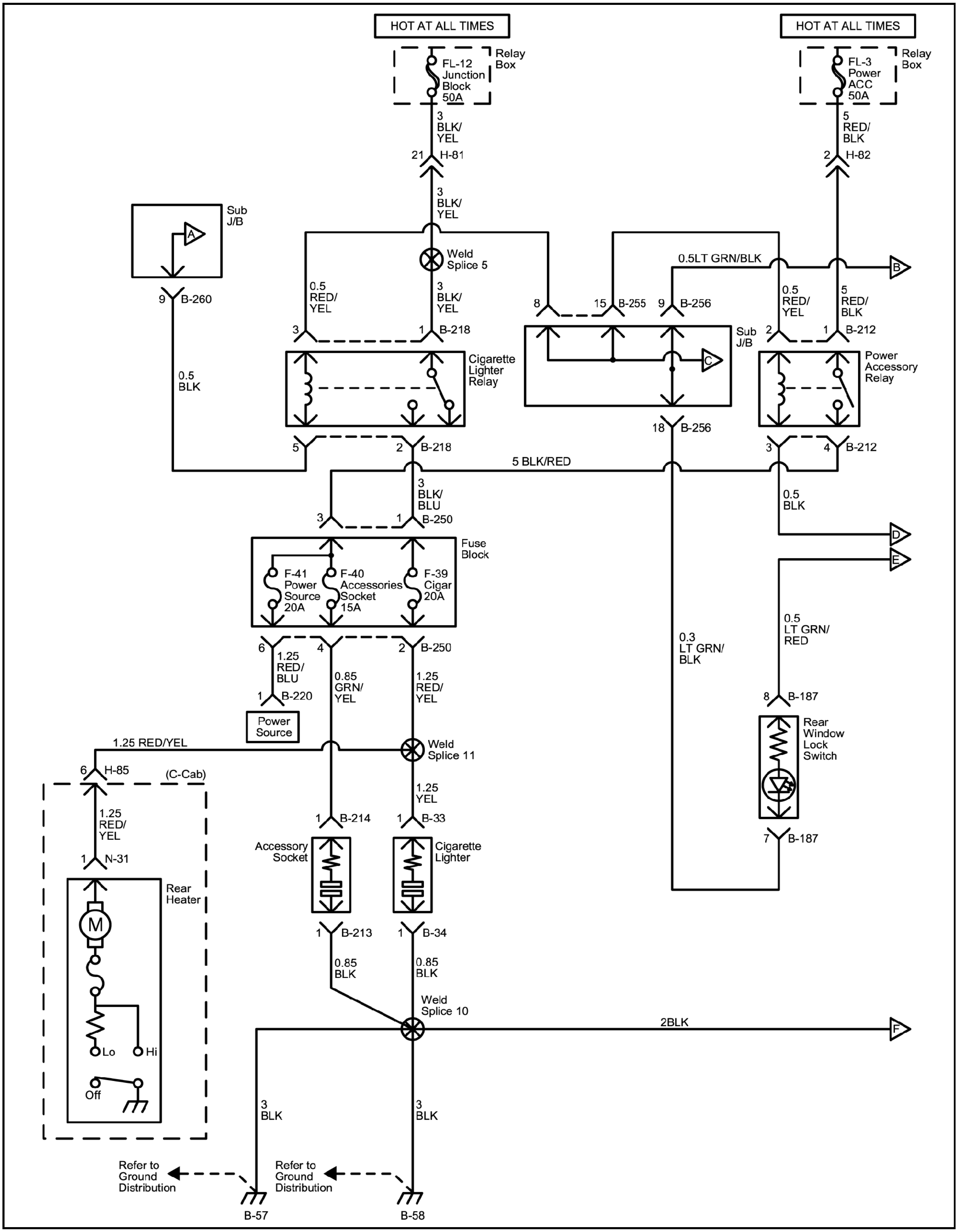
The circuit consists of the ignition switch, audio, cigarette lighter and the relay.

The audio circuit is designed for the current to flow through the receiver circuit when the audio switch is turned on with the ignition switch in “ACC” or “ON”. Current runs through the memory circuit of the audio regardless of the position of the ignition switch.

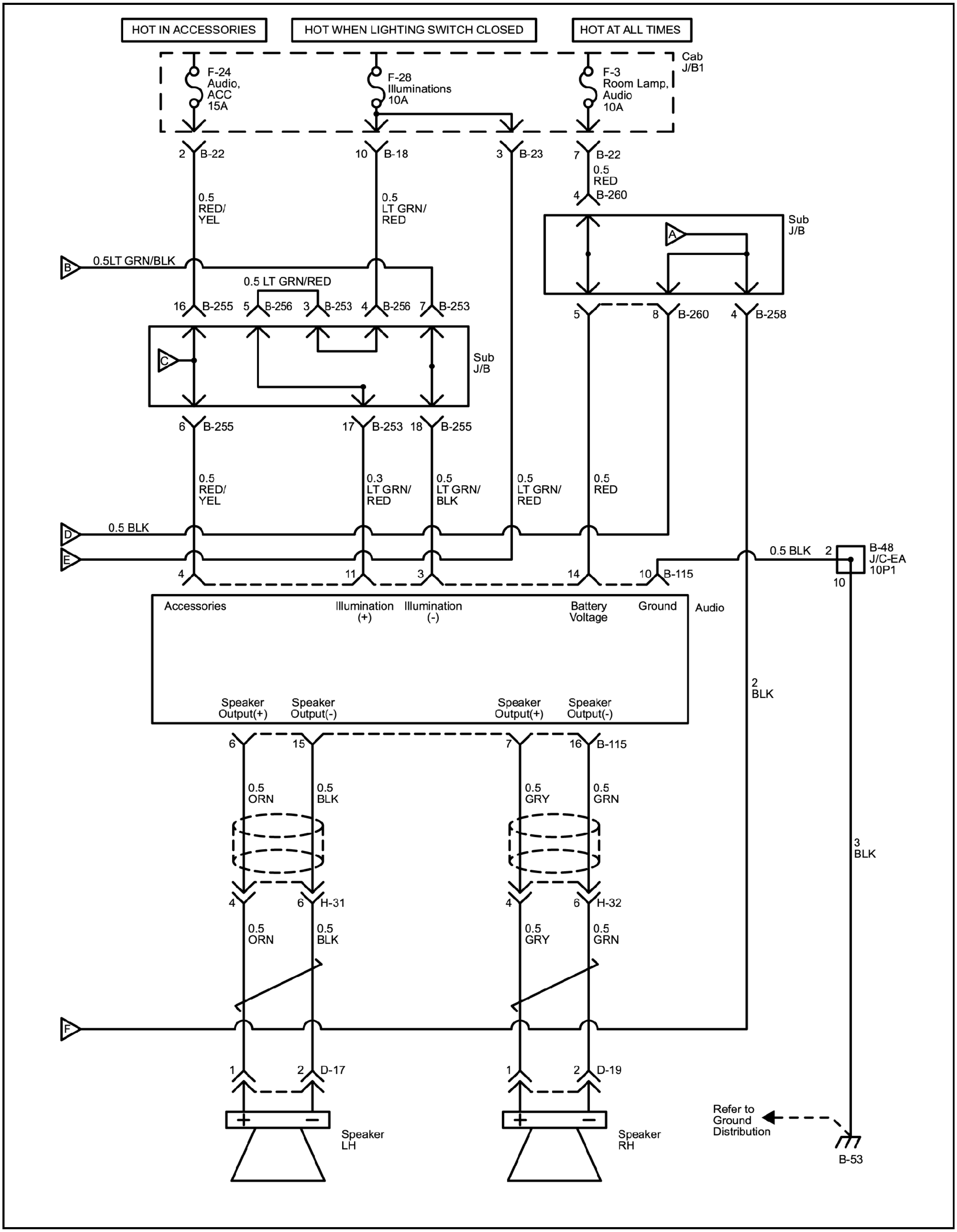
When the cigarette lighter is pushed in with the ignition switch at either “ACC” or “ON” position, a circuit is formed in the cigarette lighter case to heat the lighter coil. The cigarette lighter is spring back to its original position after the lighter coil is heated.

Schematic and Routing Diagrams

Radio and Cigarette Lighter Schematics


HOT AT ALL TIMES
FL-12 Junction Block 50A
Relay Box
3 BLK/ YEL
21 H-81
3 BLK/ YEL
HOT AT ALL TIMES
FL-3 Power ACC 50A
Relay Box
5 RED/ BLK
2 H-82
Sub J/B
A
9 B-260
Weld Splice 5
0.5 RED/ YEL
3 BLK/ YEL
3
1 B-218
Cigarette Lighter Relay
0.5 BLK
5
2 B-218
8
15 B-255
9 B-256
Sub J/B
C
18 B-256
0.5LT GRN/BLK
0.5 RED/ YEL
5 RED/ BLK
B
2
1 B-212
Power Accessory Relay
3
4 B-212
5 BLK/RED
3 BLK/ BLU
3
1 B-250
0.5 BLK
D
E
Fuse Block
F-41 Power Source 20A
F-40 Accessories Socket 15A
F-39 Cigar 20A
6
4
2 B-250
1.25 RED/ BLU
1 B-220
Power Source
0.85 GRN/ YEL
1.25 RED/ YEL
0.3 LT GRN/ BLK
0.5 LT GRN/ RED
8 B-187
Rear Window Lock Switch
7 B-187
1.25 RED/YEL
Weld Splice 11
6 H-85
(C-Cab)
1.25 RED/ YEL
1 N-31
Rear Heater
M
Lo
Hi
Off
1.25 YEL
1 B-214
1 B-33
Accessory Socket
Cigarette Lighter
1 B-213
1 B-34
0.85 BLK
0.85 BLK
Weld Splice 10
2BLK
F
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58

4557041


HOT IN ACCESSORIES
HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-24 Audio, ACC 15A
F-28 Illuminations 10A
F-3 Room Lamp, Audio 10A
2 B-22
10 B-18
3 B-23
7 B-22
0.5 RED
4 B-260
0.5 RED/ YEL
0.5 LT GRN/ RED
B
0.5LT GRN/BLK
0.5 LT GRN/RED
Sub J/B
A
16 B-255
5 B-256
3 B-253
4 B-256
7 B-253
5
8 B-260
4 B-258
C
Sub J/B
6 B-255
17 B-253
18 B-255
0.5 RED/ YEL
0.3 LT GRN/ RED
0.5 LT GRN/ BLK
0.5 LT GRN/ RED
0.5 RED
D
0.5 BLK
E
0.5 BLK
2
B-48 J/C-EA 10P1
10
4
11
3
14
10 B-115
Accessories
Illumination (+)
Illumination (-)
Battery Voltage
Ground
Audio
Speaker Output(+)
Speaker Output(-)
Speaker Output(+)
Speaker Output(-)
6
15
7
16 B-115
0.5 ORN
0.5 BLK
0.5 GRY
0.5 GRN
2 BLK
3 BLK
4
6 H-31
4
6 H-32
0.5 ORN
0.5 BLK
0.5 GRY
0.5 GRN
F
1
2 D-17
1
2 D-19
+
−
Speaker LH
+
−
Speaker RH
Refer to Ground Distribution
B-53

4557049

Description and Operation

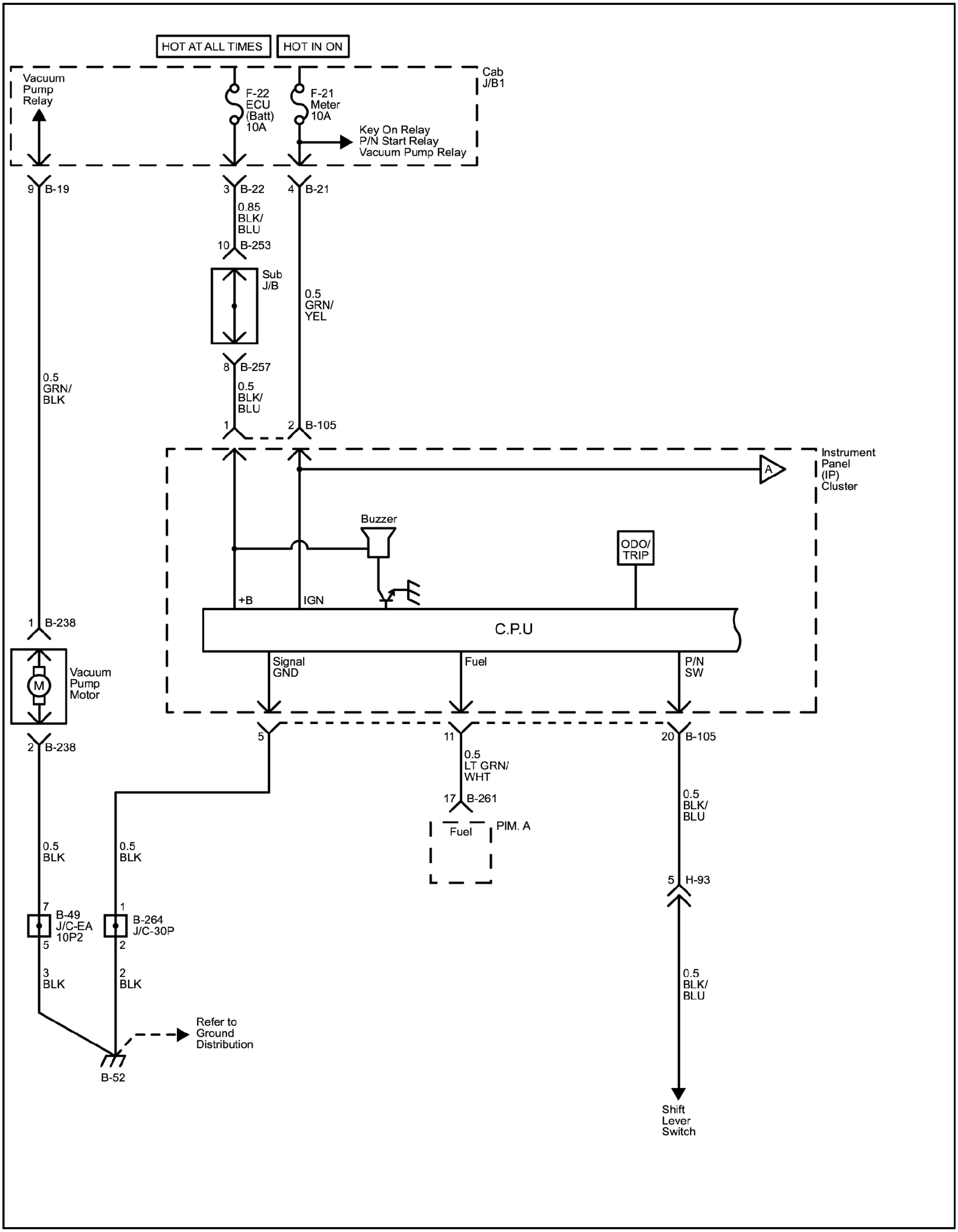
Instrument Cluster Circuit Description

The circuit consists of the ignition switch, instrument panel (IP) cluster, vacuum tank switch, oil pressure switch, brake fluid level switch, parking brake switch, vehicle speed sensor, fuel tank unit, A/T shift indicator and thermo unit.

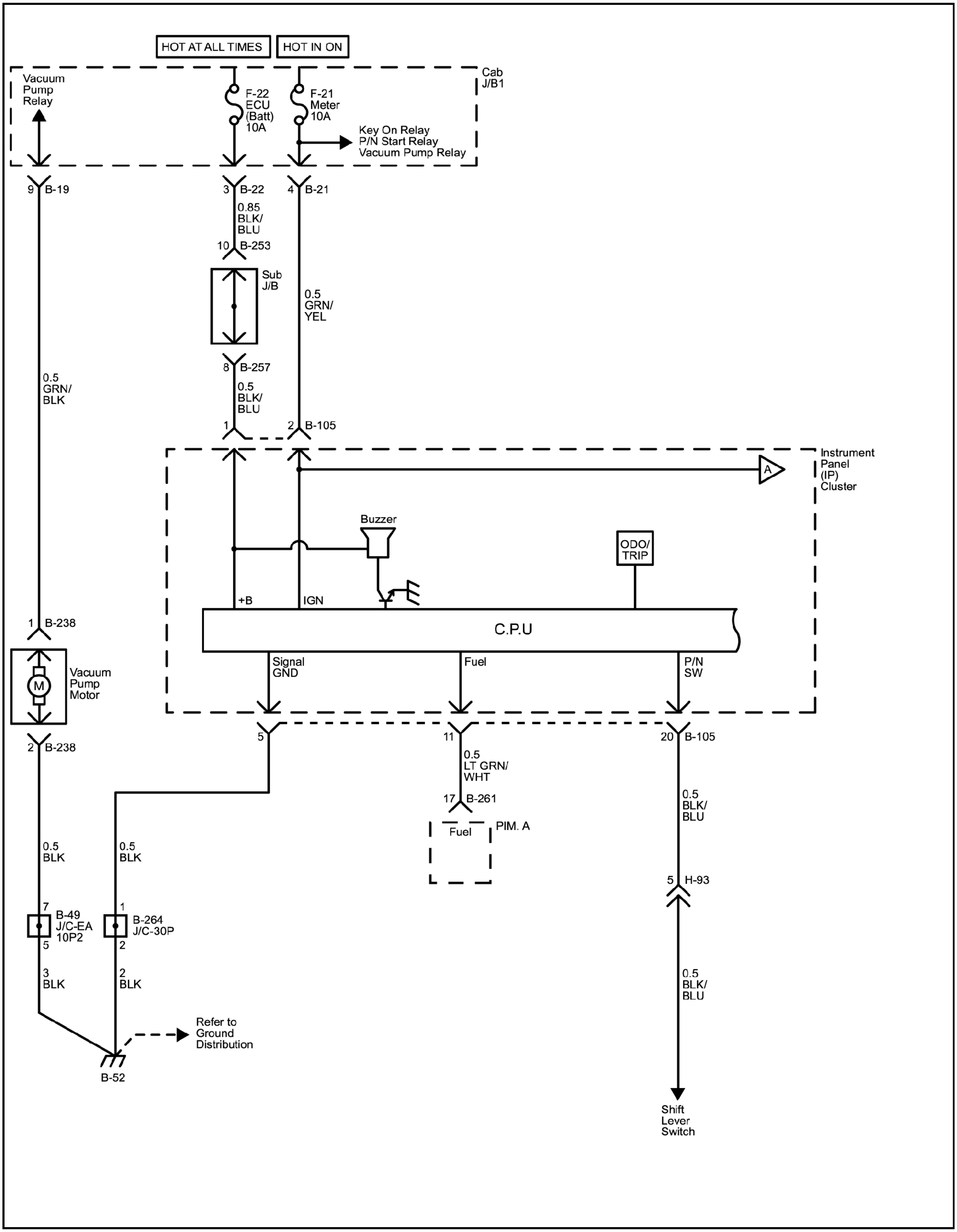
The instrument panel (IP) cluster contains the speedometer, tachometer, fuel gauge, engine coolant temperature gauge and the warning/indicator light.

Schematic and Routing Diagrams

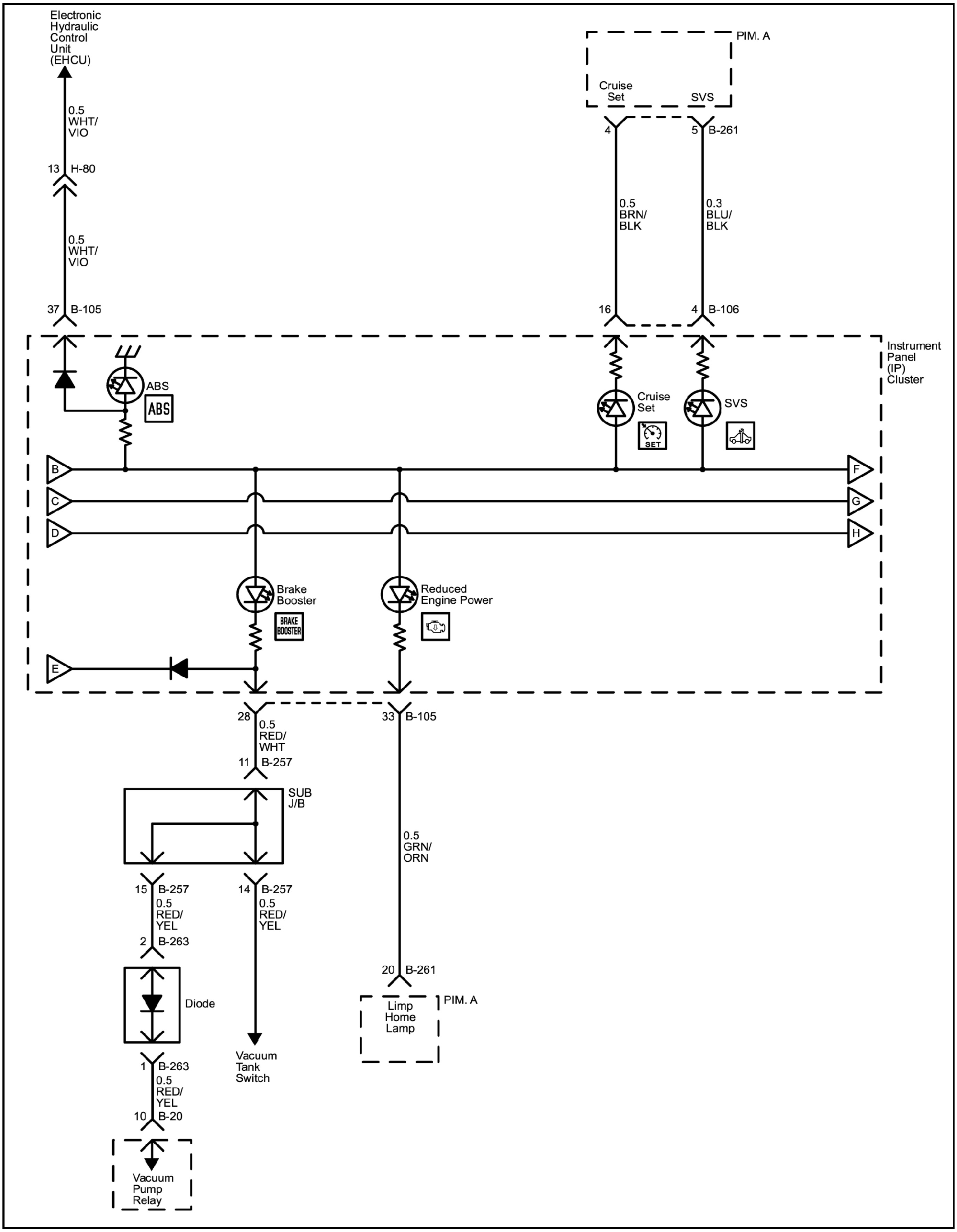
Instrument Cluster Schematics


HOT AT ALL TIMES
HOT IN ON
Vacuum Pump Relay
F-22 ECU (Batt) 10A
F-21 Meter 10A
Cab J/B1
Key On Relay
P/N Start Relay
Vacuum Pump Relay
9 B-19
3 B-22
4 B-21
0.85 BLK/ BLU
10 B-253
Sub J/B
0.5 GRN/ YEL
8 B-257
0.5 BLK/ BLU
0.5 GRN/ BLK
1 2 B-105
Instrument Panel (IP) Cluster
A
Buzzer
ODO/ TRIP
+B
IGN
C.P.U
1 B-238
Vacuum Pump Motor
M
Signal GND
Fuel
P/N SW
2 B-238
5
11
20 B-105
0.5 LT GRN/ WHT
17 B-261
Fuel
PIM. A
0.5 BLK/ BLU
0.5 BLK
0.5 BLK
5 H-93
7 B-49 J/C-EA 10P2 5
1 B-264 J/C-30P 2
3 BLK
2 BLK
0.5 BLK/ BLU
Refer to Ground Distribution
B-52
Shift Lever Switch

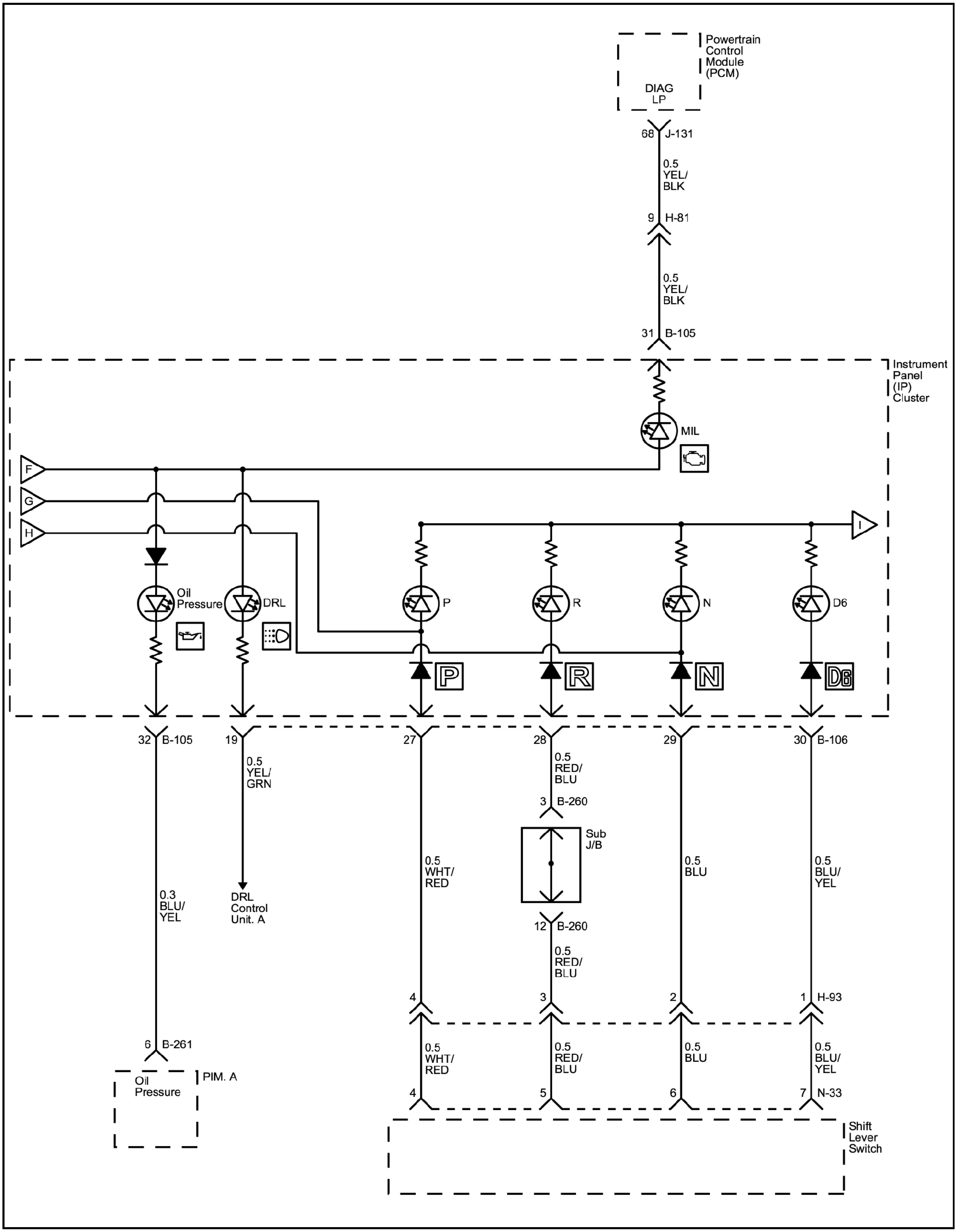
4557063


HOT AT ALL TIMES
HOT IN ON
Vacuum Pump Relay
F-22 ECU (Batt) 10A
F-21 Meter 10A
Cab J/B1
Key On Relay
P/N Start Relay
Vacuum Pump Relay
9 B-19
3 B-22
4 B-21
0.85 BLK/ BLU
10 B-253
Sub J/B
0.5 GRN/ YEL
8 B-257
0.5 GRN/ BLK
0.5 BLK/ BLU
1
2 B-105
Instrument Panel (IP) Cluster
A
Buzzer
ODO/ TRIP
+B
IGN
C.P.U
Signal GND
Fuel
P/N SW
1 B-238
Vacuum Pump Motor
M
2 B-238
5
11
20 B-105
0.5 LT GRN/ WHT
17 B-261
Fuel
PIM. A
0.5 BLK/ BLU
0.5 BLK
0.5 BLK
5 H-93
7
B-49 J/C-EA 10P2
5
1
B-264 J/C-30P
2
3 BLK
2 BLK
0.5 BLK/ BLU
Refer to Ground Distribution
B-52
Shift Lever Switch

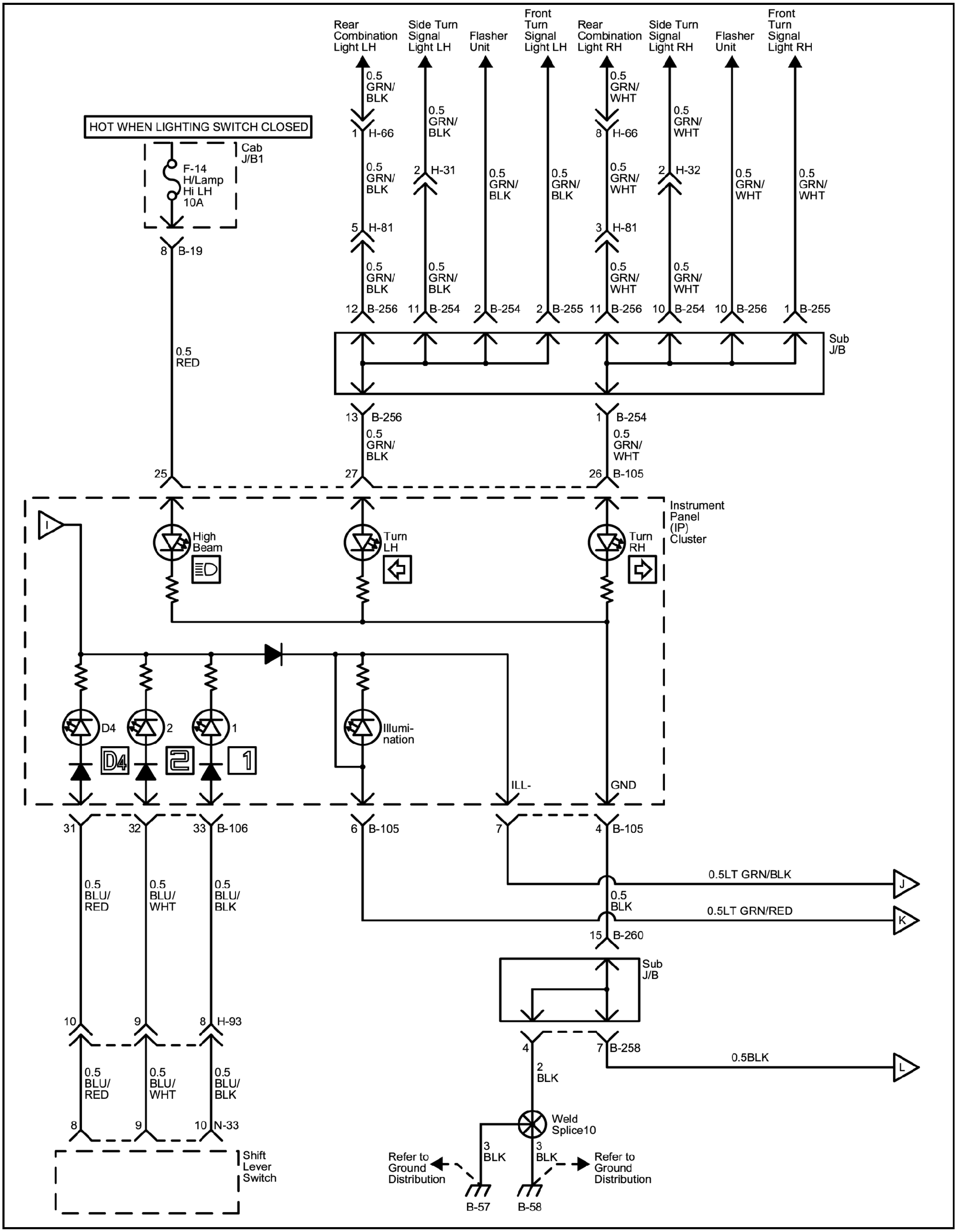
4557073


Electronic Hydraulic Control Unit (EHCU)
0.5 WHT/ VIO
13 H-80
0.5 WHT/ VIO
37 B-105
PIM. A
Cruise Set
SVS
4
5 B-261
0.5 BRN/ BLK
0.3 BLU/ BLK
16
4 B-106
Instrument Panel (IP) Cluster
ABS
ABS
Cruise Set
SET
SVS
B
C
D
F
G
H
Brake Booster
BRAKE BOOSTER
Reduced Engine Power
E
28
0.5 RED/ WHT
33 B-105
11 B-257
SUB J/B
0.5 GRN/ ORN
15 B-257
0.5 RED/ YEL
14 B-257
0.5 RED/ YEL
2 B-263
Diode
Vacuum Tank Switch
20 B-261
Limp Home Lamp
PIM. A
1 B-263
0.5 RED/ YEL
10 B-20
Vacuum Pump Relay

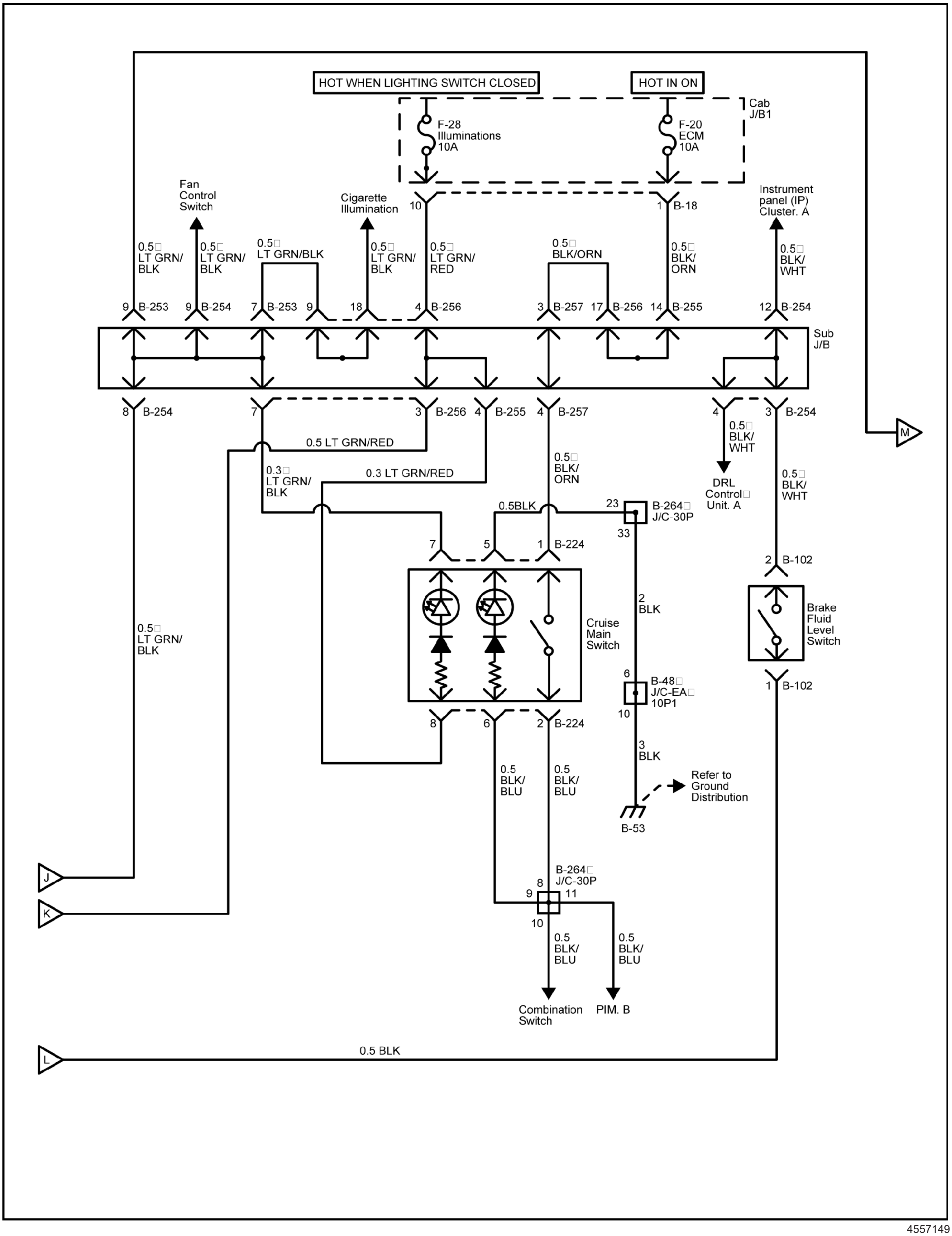
4557083

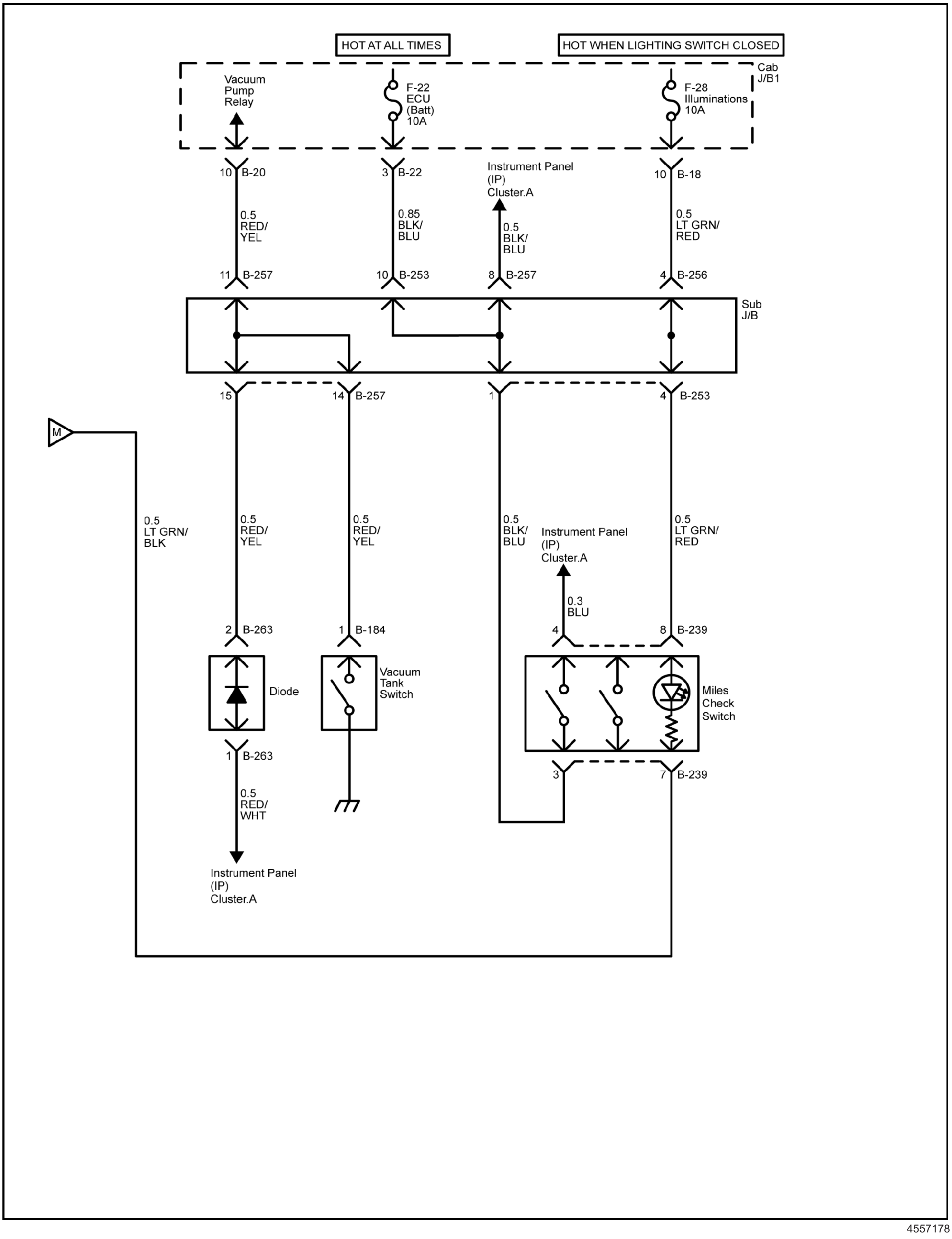

Powertrain Control Module (PCM)
DIAG LP
68 J-131
0.5 YEL/BLK
9 H-81
0.5 YEL/BLK
31 B-105
Instrument Panel (IP) Cluster
MIL
F
G
H
I
Oil Pressure
DRL
P
R
N
D6
32 B-105
19
27
28
29
30 B-106
0.5 YEL/GRN
0.5 RED/BLU
3 B-260
Sub J/B
12 B-260
0.5 RED/BLU
0.3 BLU/YEL
DRL Control Unit. A
0.5 WHT/RED
0.5 BLU
0.5 BLU/YEL
4
3
2
1 H-93
0.5 WHT/RED
0.5 RED/BLU
0.5 BLU
0.5 BLU/YEL
4
5
6
7 N-33
6 B-261
Oil Pressure
PIM. A
Shift Lever Switch

4557122

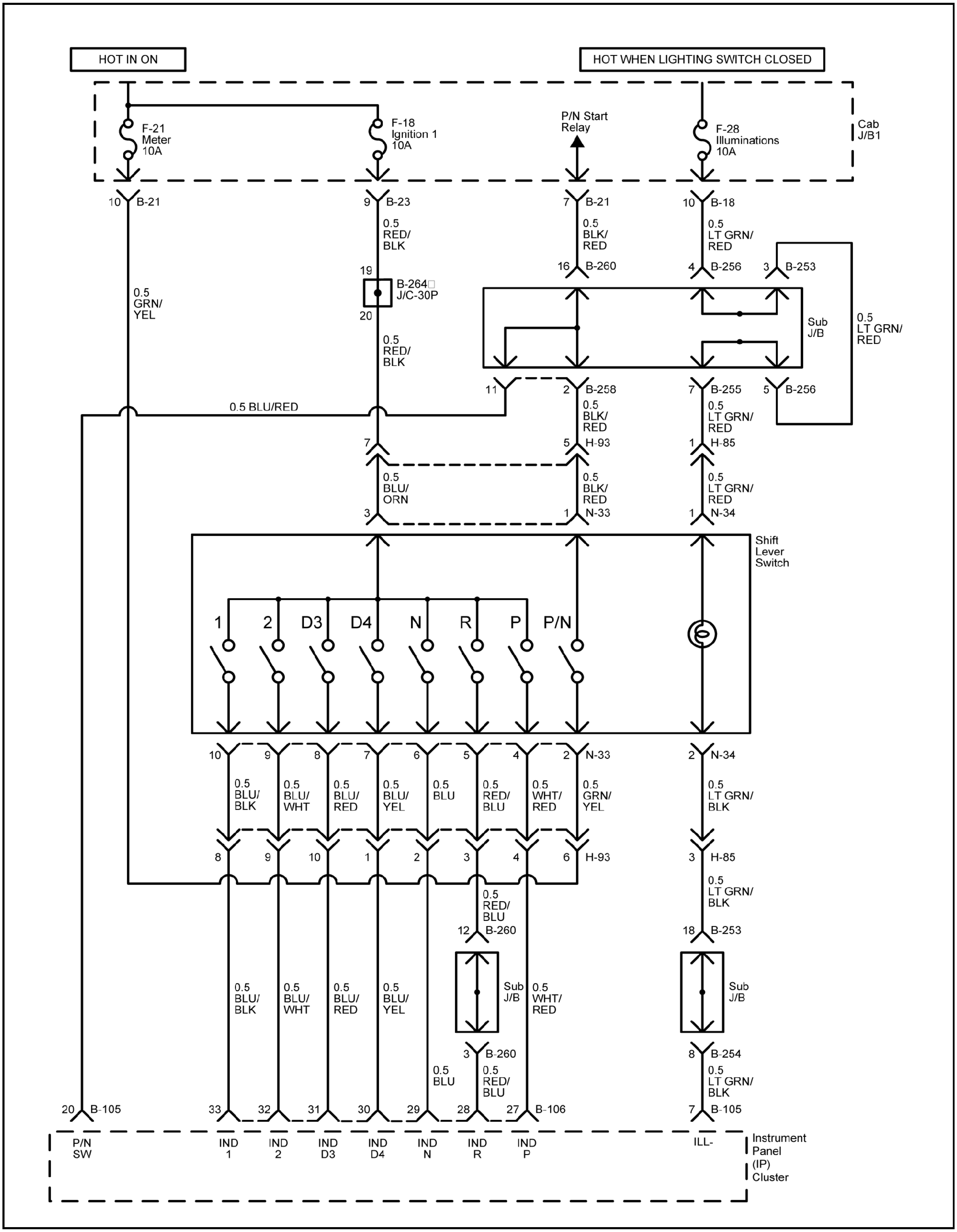

Rear Combination Light LH
Side Turn Signal Light LH
Flasher Unit
Front Turn Signal Light LH
Rear Combination Light RH
Side Turn Signal Light RH
Flasher Unit
Front Turn Signal Light RH
0.5 GRN/BLK
0.5 GRN/WHT
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-14 H/Lamp Hi LH 10A
1 H-66
8 H-66
2 H-31
2 H-32
5 H-81
3 H-81
8 B-19
12 B-256
11 B-254
2 B-254
2 B-255
11 B-256
10 B-254
10 B-256
1 B-255
Sub J/B
0.5 RED
13 B-256
1 B-254
25
27
26 B-105
Instrument Panel (IP) Cluster
High Beam
Turn LH
Turn RH
I
D4
2
1
Illumi-nation
ILL-
GND
31
32
33 B-106
6 B-105
7
4 B-105
0.5 BLU/RED
0.5 BLU/WHT
0.5 BLU/BLK
0.5LT GRN/BLK
J
0.5 BLK
0.5LT GRN/RED
K
15 B-260
Sub J/B
10
9
8 H-93
4
7 B-258
0.5BLK
L
2 BLK
8
9
10 N-33
Weld Splice10
Shift Lever Switch
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-57
B-58

4557135


HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ON
Cab J/B1
F-28 Illuminations 10A
F-20 ECM 10A
Fan Control Switch
Cigarette Illumination
Instrument panel (IP) Cluster. A
10
1 B-18
0.5□ LT GRN/ BLK
0.5□ LT GRN/ BLK
0.5□ LT GRN/BLK
0.5□ LT GRN/ BLK
0.5□ LT GRN/ RED
0.5□ BLK/ORN
0.5□ BLK/ ORN
0.5□ BLK/ WHT
9 B-253
9 B-254
7 B-253
9
18
4 B-256
3 B-257
17 B-256
14 B-255
12 B-254
Sub J/B
8 B-254
7
3 B-256
4 B-255
4 B-257
4
3 B-254
M
0.5 LT GRN/RED
0.3□ LT GRN/ BLK
0.3 LT GRN/RED
0.5□ BLK/ ORN
0.5□ BLK/ WHT
DRL Control□ Unit. A
0.5□ BLK/ WHT
0.5BLK
23
B-264□ J/C-30P
33
7
5
1 B-224
2 B-102
Cruise Main Switch
2 BLK
Brake Fluid Level Switch
6
B-48□ J/C-EA□ 10P1
10
1 B-102
0.5□ LT GRN/ BLK
8
6
2 B-224
3 BLK
Refer to Ground Distribution
0.5 BLK/ BLU
0.5 BLK/ BLU
B-53
J
K
B-264□ J/C-30P
8
9
11
10
0.5 BLK/ BLU
0.5 BLK/ BLU
Combination Switch
PIM. B
L
0.5 BLK
4557149


HOT AT ALL TIMES
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
Vacuum Pump Relay
F-22 ECU (Batt) 10A
F-28 Illuminations 10A
10 B-20
3 B-22
Instrument Panel (IP) Cluster.A
10 B-18
0.5 RED/ YEL
0.85 BLK/ BLU
0.5 BLK/ BLU
0.5 LT GRN/ RED
11 B-257
10 B-253
8 B-257
4 B-256
Sub J/B
15
14 B-257
1
4 B-253
M
0.5 LT GRN/ BLK
0.5 RED/ YEL
0.5 RED/ YEL
0.5 BLK/ BLU
Instrument Panel (IP) Cluster.A
0.5 LT GRN/ RED
0.3 BLU
2 B-263
1 B-184
4
8 B-239
Diode
Vacuum Tank Switch
Miles Check Switch
1 B-263
3
7 B-239
0.5 RED/ WHT
Instrument Panel (IP) Cluster.A

4557178


HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
F-21 Meter 10A
F-18 Ignition 1 10A
P/N Start Relay
F-28 Illuminations 10A
Cab J/B1
10 B-21
9 B-23
7 B-21
10 B-18
0.5 GRN/YEL
0.5 RED/BLK
0.5 BLK/RED
0.5 LT GRN/RED
19 B-264 J/C-30P 20
16 B-260
4 B-256
3 B-253
Sub J/B
11
2 B-258
7 B-255
5 B-256
0.5 BLU/RED
7
5 H-93
1 H-85
0.5 BLU/ORN
3
1 N-33
1 N-34
Shift Lever Switch
1 2 D3 D4 N R P P/N
10 9 8 7 6 5 4 2 N-33
2 N-34
0.5 BLU/BLK
0.5 BLU/WHT
0.5 BLU/RED
0.5 BLU/YEL
0.5 BLU
0.5 RED/BLU
0.5 WHT/RED
0.5 GRN/YEL
0.5 LT GRN/BLK
8 9 10 1 2 3 4 6 H-93
3 H-85
12 B-260
18 B-253
3 B-260
8 B-254
20 B-105
33 32 31 30 29 28 27 B-106
7 B-105
P/N SW
IND 1
IND 2
IND D3
IND D4
IND N
IND R
IND P
ILL-
Instrument Panel (IP) Cluster

4557179

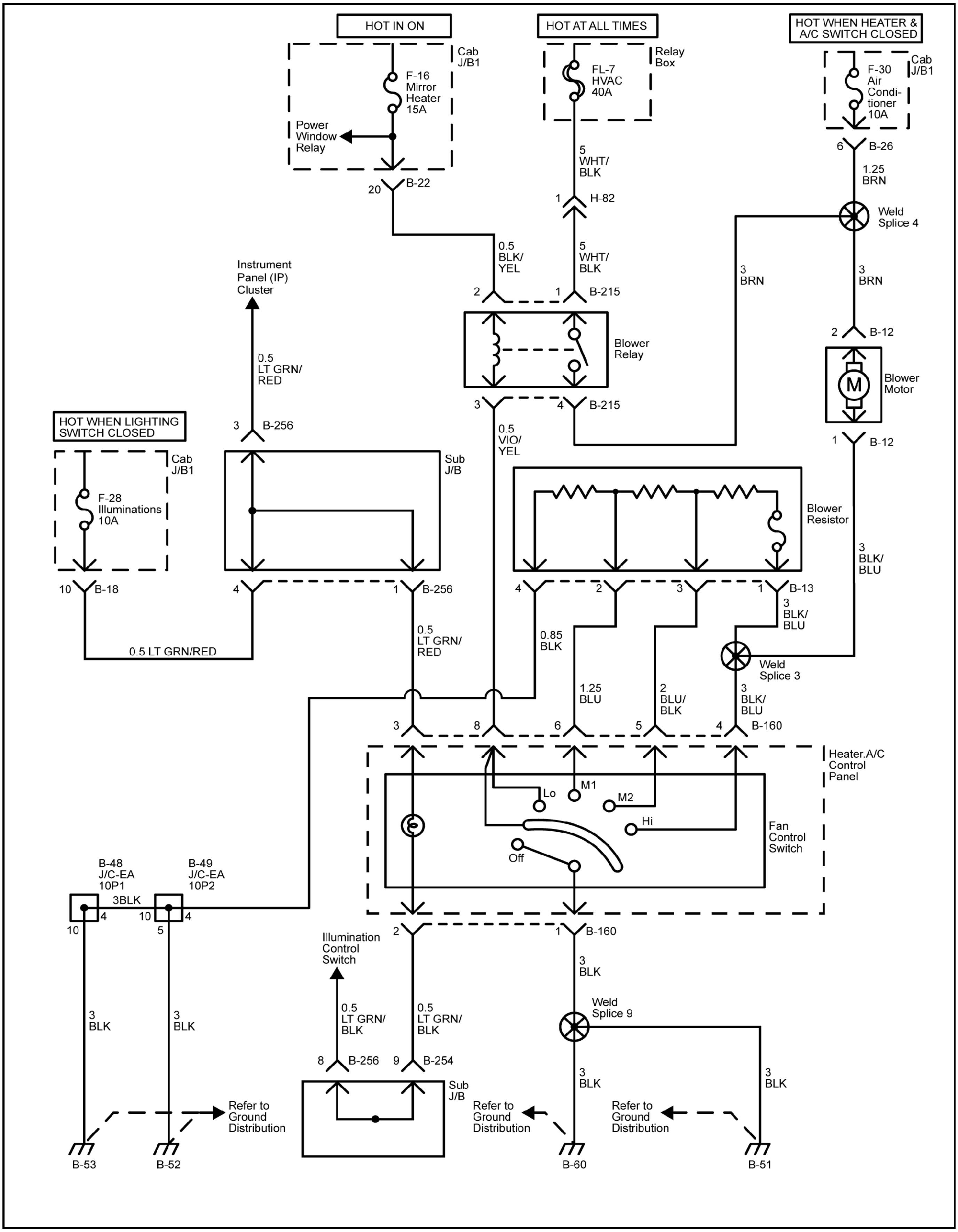
Description and Operation

HVAC Circuit Description

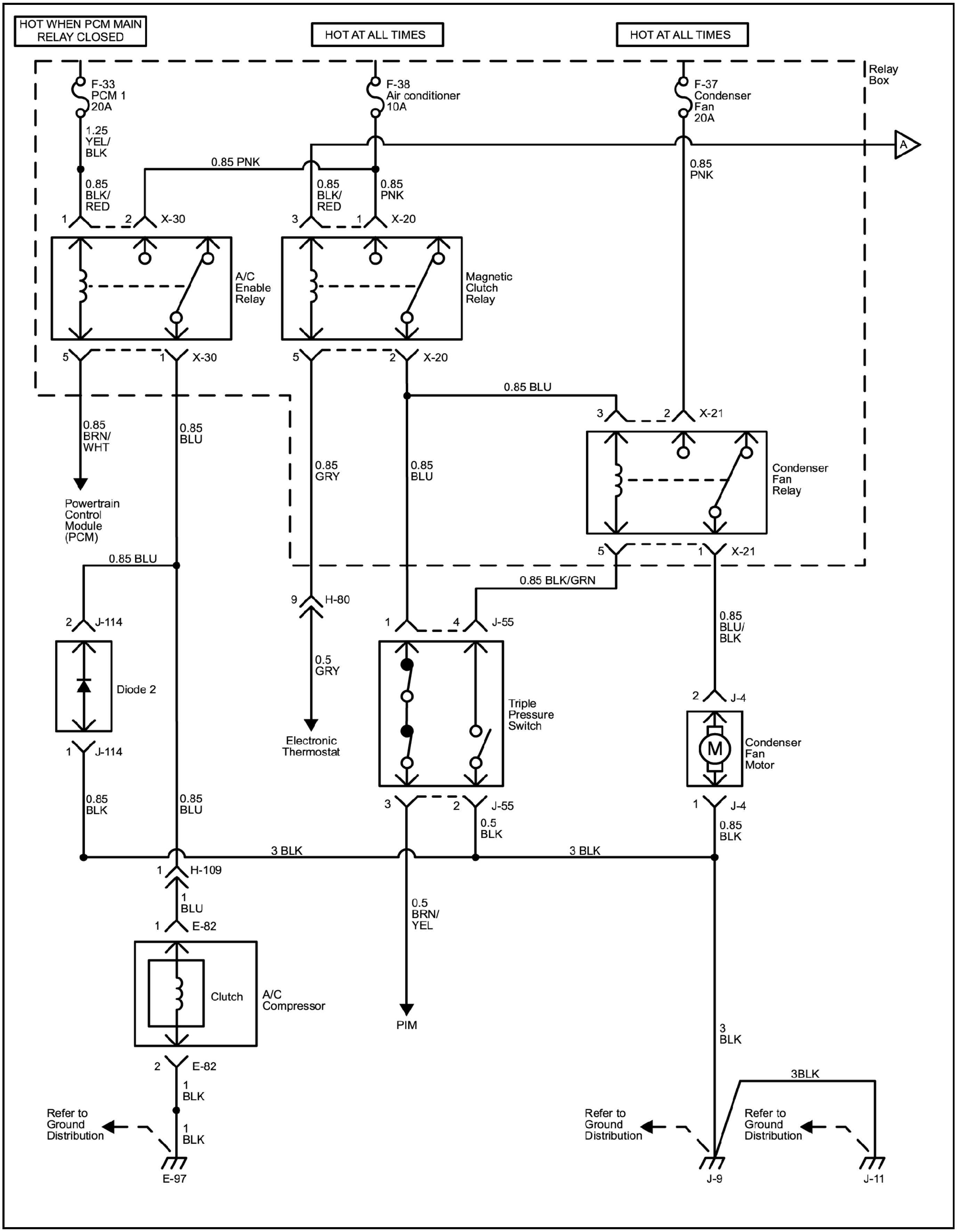
The air conditioning circuit consists of compressor, A/C switch, fan control switch, etc. When the engine is rotating, the A/C starts to work with both the A/C and fan switches 'ON', followed by the engagement of the magnetic clutch. It stops to work when either the fan switch or the A/C switch turns 'OFF'. In addition, the A/C has the function of temporary stop of its operation by function of the pressure switch when sensing abnormal rise of the refrigerant pressure.

Schematic and Routing Diagrams

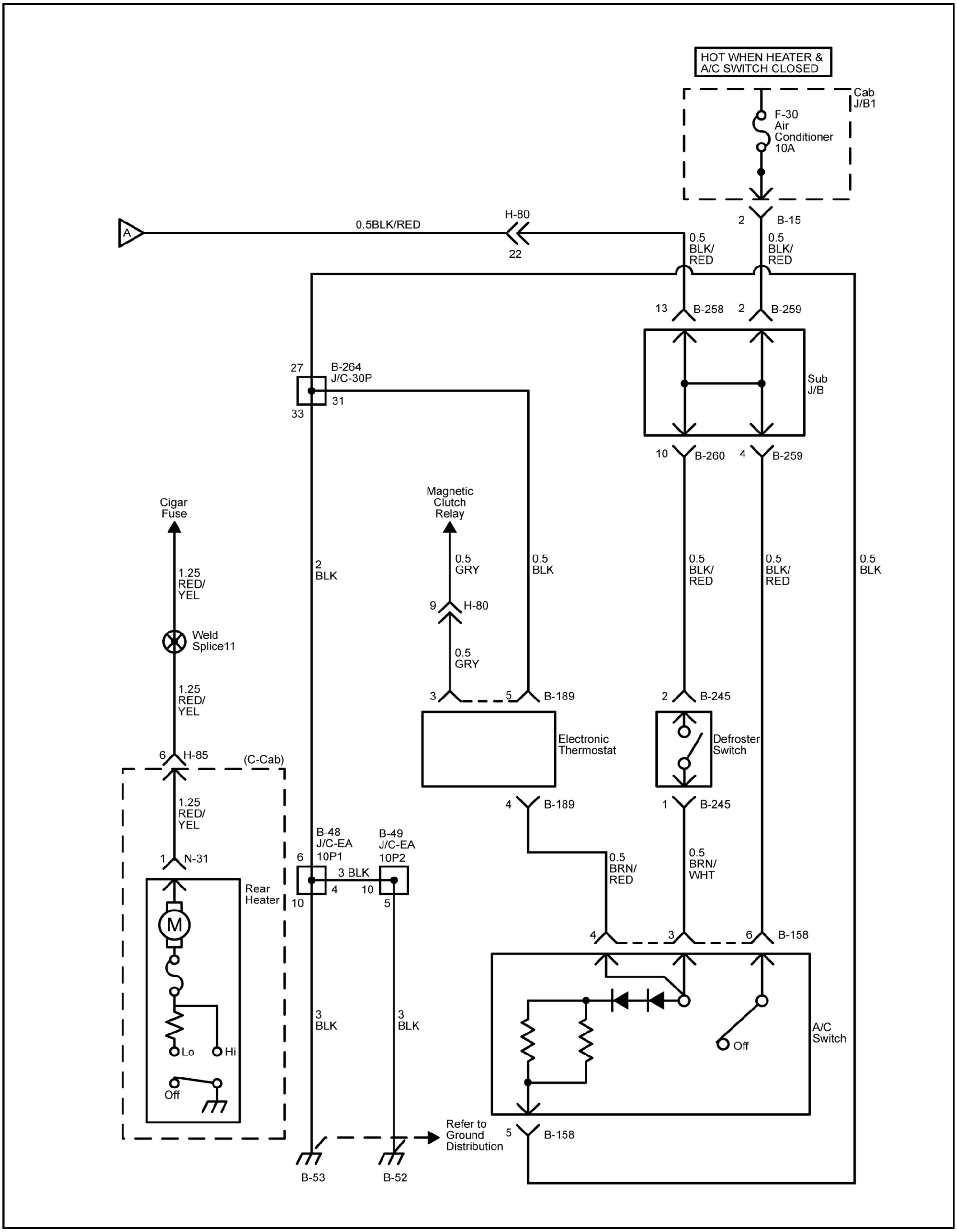
HVAC Schematics


HOT IN ON
Cab J/B1
F-16 Mirror Heater 15A
Power Window Relay
20 B-22
HOT AT ALL TIMES
Relay Box
FL-7 HVAC 40A
5 WHT/BLK
1 H-82
5 WHT/BLK
HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Condi-tioner 10A
6 B-26
1.25 BRN
Weld Splice 4
3 BRN
3 BRN
2 B-12
Blower Motor
1 B-12
0.5 BLK/YEL
2 1 B-215
Blower Relay
3 4 B-215
0.5 VIO/YEL
Instrument Panel (IP) Cluster
0.5 LT GRN/RED
3 B-256
Sub J/B
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-28 Illuminations 10A
10 B-18
4 1 B-256
0.5 LT GRN/RED
0.5 LT GRN/RED
Blower Resistor
3 BLK/BLU
4 2 3 1 B-13
3 BLK/BLU
0.85 BLK
1.25 BLU
2 BLU/BLK
Weld Splice 3
3 BLK/BLU
3 8 6 5 4 B-160
Heater.A/C Control Panel
Lo
M1
M2
Hi
Off
Fan Control Switch
B-48 J/C-EA 10P1
B-49 J/C-EA 10P2
3BLK
10 4 10 4
10 5
2 1 B-160
3 BLK
Illumination Control Switch
Weld Splice 9
0.5 LT GRN/BLK
0.5 LT GRN/BLK
8 B-256
9 B-254
Sub J/B
3 BLK
3 BLK
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-53
B-52
B-60
B-51

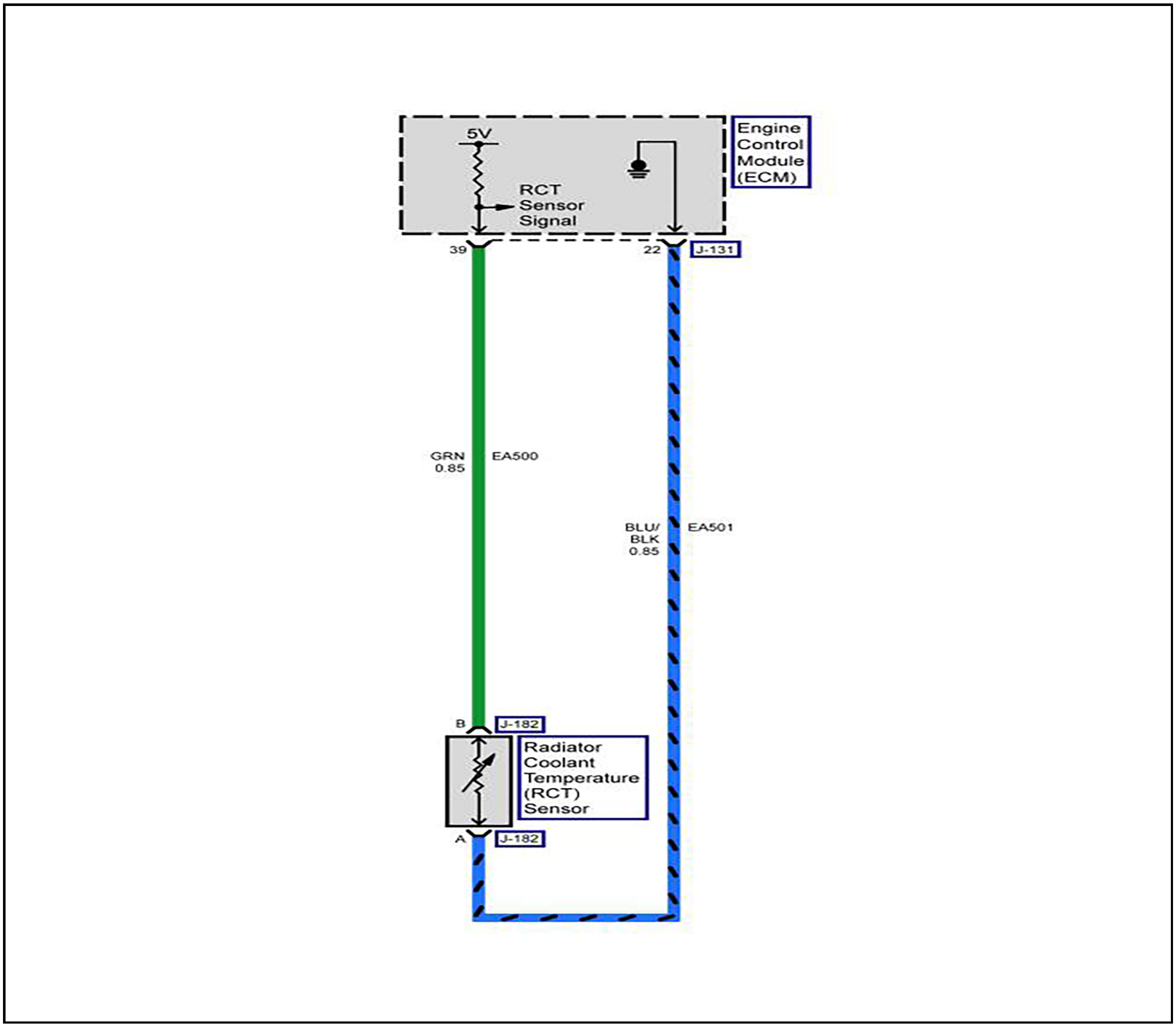
4557620


HOT WHEN PCM MAIN RELAY CLOSED
HOT AT ALL TIMES
HOT AT ALL TIMES
Relay Box
F-33 PCM 1 20A
F-38 Air conditioner 10A
F-37 Condenser Fan 20A
1.25 YEL/ BLK
0.85 PNK
0.85 BLK/ RED
0.85 BLK/ RED
0.85 PNK
0.85 PNK
A
1 2 X-30
3 1 X-20
A/C Enable Relay
Magnetic Clutch Relay
5 1 X-30
5 2 X-20
0.85 BLU
3 2 X-21
Condenser Fan Relay
5 1 X-21
0.85 BRN/ WHT
0.85 BLU
0.85 GRY
0.85 BLU
Powertrain Control Module (PCM)
0.85 BLU
0.85 BLK/GRN
9 H-80
2 J-114
Diode 2
1 J-114
0.5 GRY
Electronic Thermostat
1 4 J-55
Triple Pressure Switch
3 2 J-55
0.85 BLU/ BLK
2 J-4
Condenser Fan Motor
M
1 J-4
0.85 BLK
0.85 BLU
0.5 BLK
0.85 BLK
3 BLK
3 BLK
1 H-109
1 BLU
1 E-82
Clutch
A/C Compressor
2 E-82
0.5 BRN/ YEL
PIM
3 BLK
3BLK
1 BLK
1 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
E-97
J-9
J-11

4557627


HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
2 B-15
A
0.5BLK/RED
H-80
22
0.5 BLK/ RED
0.5 BLK/ RED
13 B-258
2 B-259
Sub J/B
10 B-260
4 B-259
27 B-264 J/C-30P
31
33
Cigar Fuse
Magnetic Clutch Relay
1.25 RED/ YEL
2 BLK
0.5 GRY
0.5 BLK
0.5 BLK/ RED
0.5 BLK/ RED
0.5 BLK
9 H-80
Weld Splice11
0.5 GRY
1.25 RED/ YEL
3
5 B-189
2 B-245
Electronic Thermostat
Defroster Switch
6 H-85
(C-Cab)
4 B-189
1 B-245
1.25 RED/ YEL
B-48 J/C-EA 10P1
B-49 J/C-EA 10P2
0.5 BRN/ RED
0.5 BRN/ WHT
1 N-31
6
3 BLK
Rear Heater
10
4
10
5
M
4
3
6 B-158
Lo
Hi
3 BLK
3 BLK
A/C Switch
Off
Off
Refer to Ground Distribution
5 B-158
B-53
B-52

4557633


5V
RCT
Sensor
Signal
Engine
Control
Module
(ECM)
39
22
J-131
GRN
0.85
EA500
BLU/
BLK
0.85
EA501
B
J-182
Radiator
Coolant
Temperature
(RCT)
Sensor
A
J-182

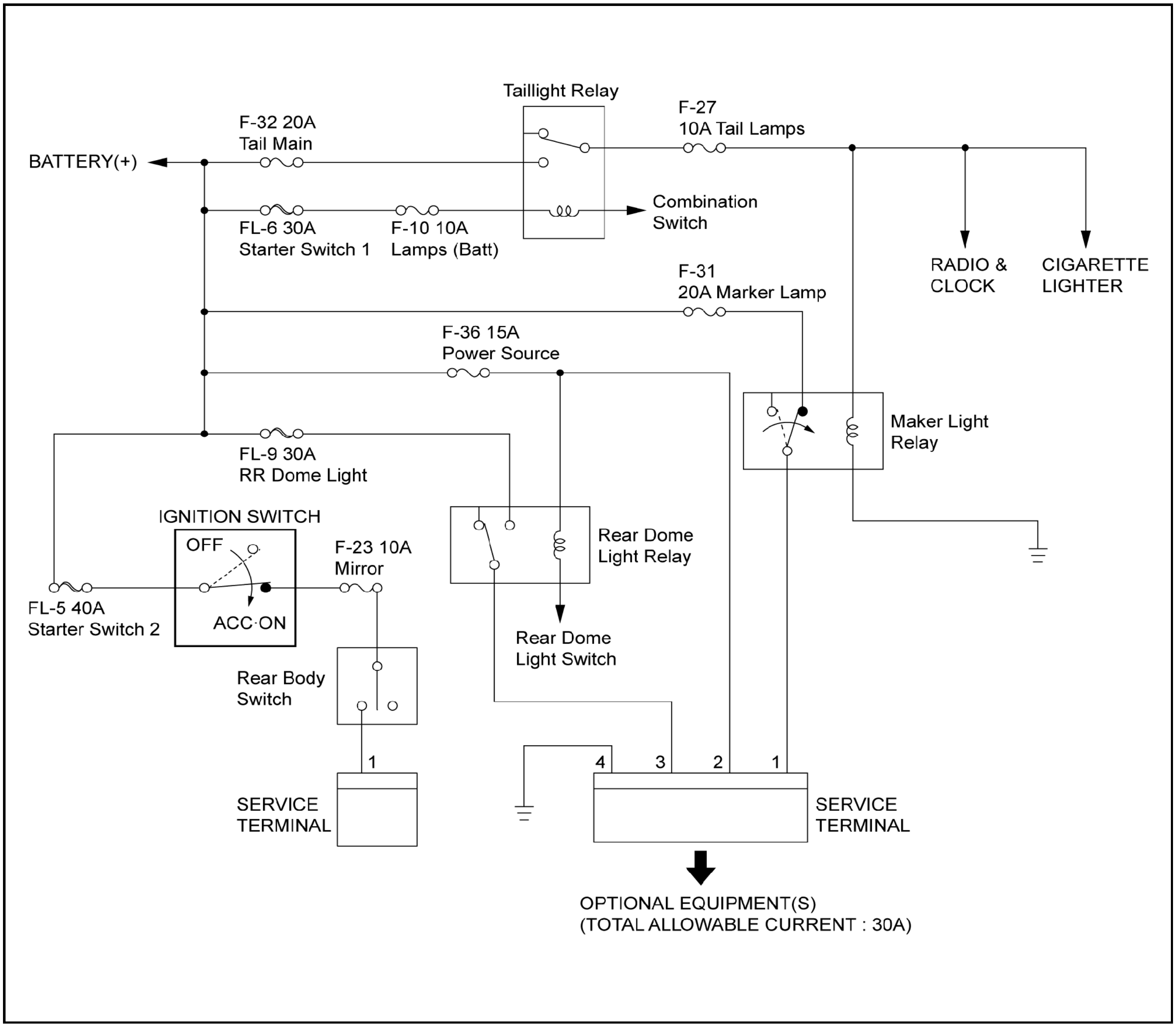
4575072

Description and Operation

Service Terminal Circuit Description

The circuit consists of the maker light relay, and the connector for the service terminal.

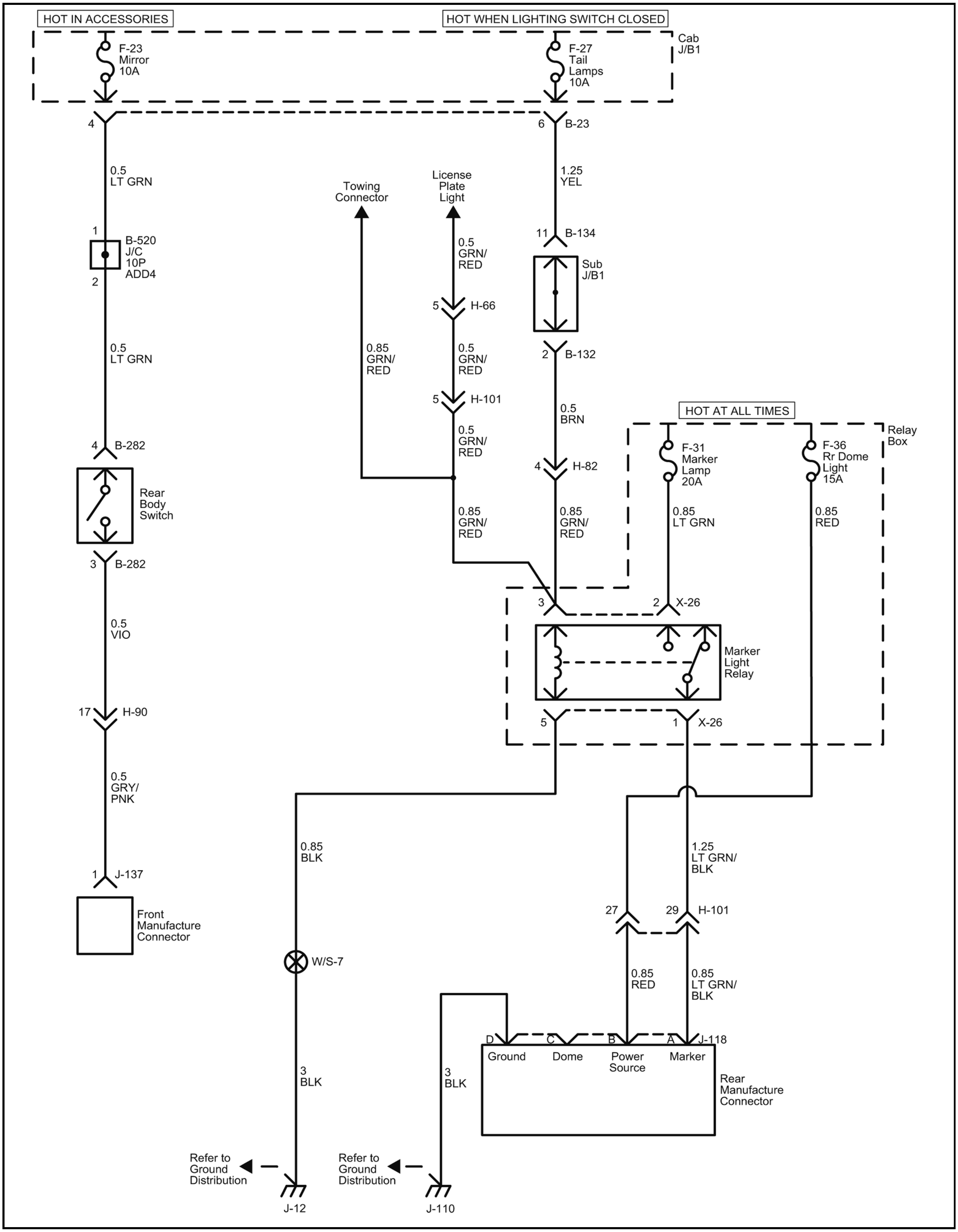
The service terminal connector is provided for Installation of optional equipment (S). This circuit incorporates a 20A fuse. Make sure that the total current of all installed parts does not exceed 20A.

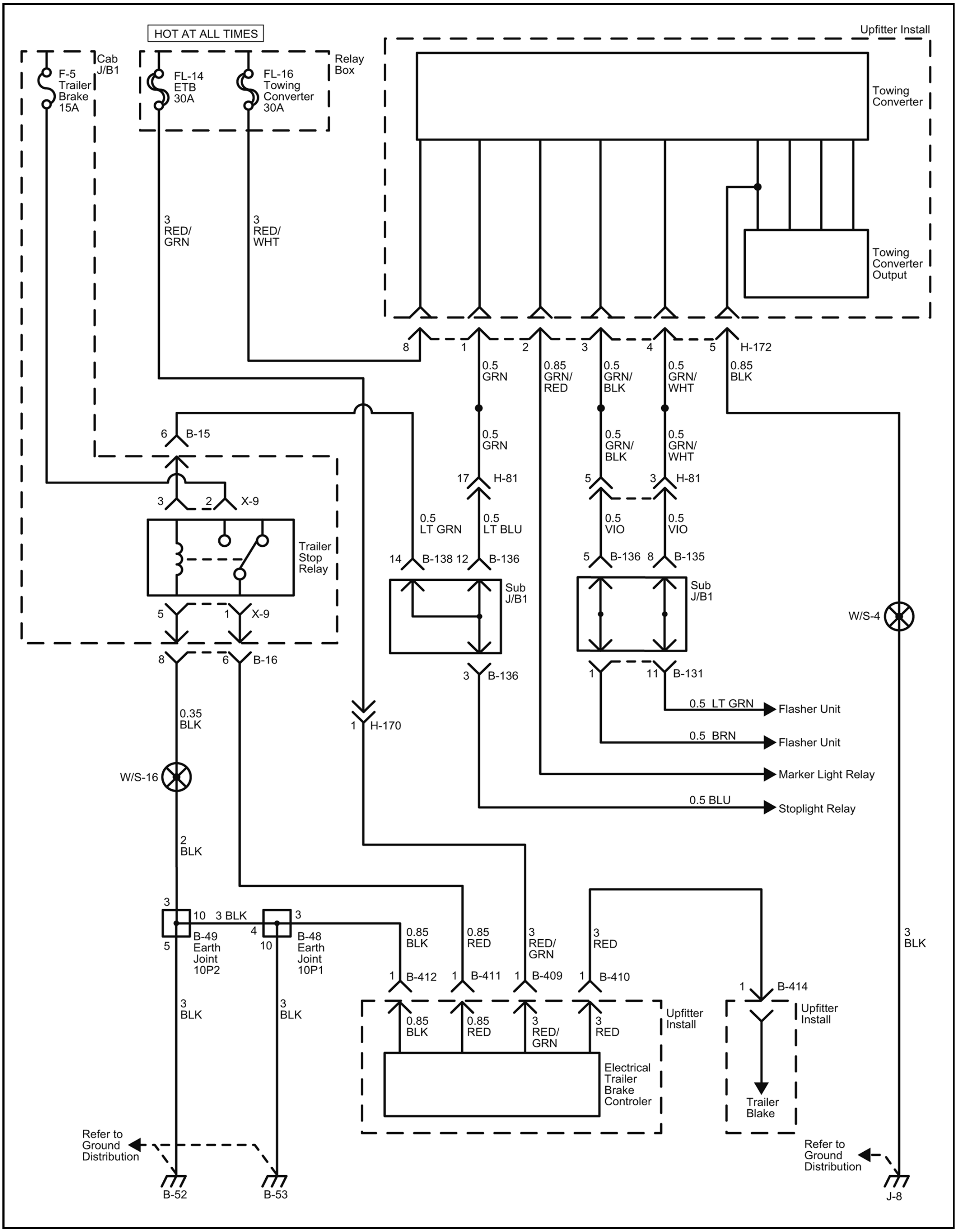

Taillight Relay
F-32 20A
Tail Main
F-27
10A Tail Lamps
BATTERY(+)
Combination
Switch
FL-6 30A
Starter Switch 1
F-10 10A
Lamps (Batt)
RADIO &
CLOCK
CIGARETTE
LIGHTER
F-31
20A Marker Lamp
F-36 15A
Power Source
Maker Light
Relay
FL-9 30A
RR Dome Light
IGNITION SWITCH
OFF
ACC·ON
F-23 10A
Mirror
Rear Dome
Light Relay
FL-5 40A
Starter Switch 2
Rear Dome
Light Switch
Rear Body
Switch
1
4
3
2
1
SERVICE
TERMINAL
SERVICE
TERMINAL
OPTIONAL EQUIPMENT(S)
(TOTAL ALLOWABLE CURRENT : 30A)

4557640

Schematic and Routing Diagrams

Service Terminal Schematics


HOT IN ACCESSORIES
HOT WHEN LIGHTING SWITCH CLOSED
F-23
Mirror
10A
F-27
Tail
Lamps
10A
Cab
J/B1
4
6
B-23
0.5
LT GRN
1.25
YEL
Towing
Connector
License
Plate
Light
1
B-520
J/C
10P
ADD4
2
0.5
GRN/
RED
11
B-134
Sub
J/B1
5
H-66
2
B-132
0.5
LT GRN
0.85
GRN/
RED
0.5
GRN/
RED
5
H-101
0.5
BRN
HOT AT ALL TIMES
Relay
Box
0.5
GRN/
RED
4
B-282
F-31
Marker
Lamp
20A
F-36
Rr Dome
Light
15A
4
H-82
Rear
Body
Switch
0.85
GRN/
RED
0.85
GRN/
RED
0.85
LT GRN
0.85
RED
3
B-282
3
2
X-26
0.5
VIO
Marker
Light
Relay
17
H-90
5
1
X-26
0.5
GRY/
PNK
0.85
BLK
1.25
LT GRN/
BLK
1
J-137
27
29
H-101
Front
Manufacture
Connector
W/S-7
0.85
RED
0.85
LT GRN/
BLK
D
C
B
A
J-118
Ground
Dome
Power
Source
Marker
3
BLK
3
BLK
Rear
Manufacture
Connector
Refer to
Ground
Distribution
Refer to
Ground
Distribution
J-12
J-110
4496937


HOT AT ALL TIMES
Cab J/B1
F-5 Trailer Brake 15A
FL-14 ETB 30A
FL-16 Towing Converter 30A
Relay Box
Upfitter Install
Towing Converter
Towing Converter Output
3 RED/GRN
3 RED/WHT
H-172
0.5 GRN
0.85 GRN/RED
0.5 GRN/BLK
0.5 GRN/WHT
0.85 BLK
B-15
X-9
Trailer Stop Relay
H-81
0.5 LT GRN
0.5 LT BLU
0.5 VIO
B-138
B-136
B-135
Sub J/B1
W/S-4
B-16
B-131
0.35 BLK
H-170
0.5 LT GRN Flasher Unit
0.5 BRN Flasher Unit
Marker Light Relay
0.5 BLU Stoplight Relay
W/S-16
2 BLK
3 BLK
B-49 Earth Joint 10P2
B-48 Earth Joint 10P1
0.85 BLK
0.85 RED
3 RED/GRN
3 RED
B-412
B-411
B-409
B-410
B-414
Electrical Trailer Brake Controler
Trailer Blake
Refer to Ground Distribution
B-52
B-53
J-8

4496941

Description and Operation

Power Windows

The circuit consist of the ignition switch, power window switch for each of the windows and power window motor.

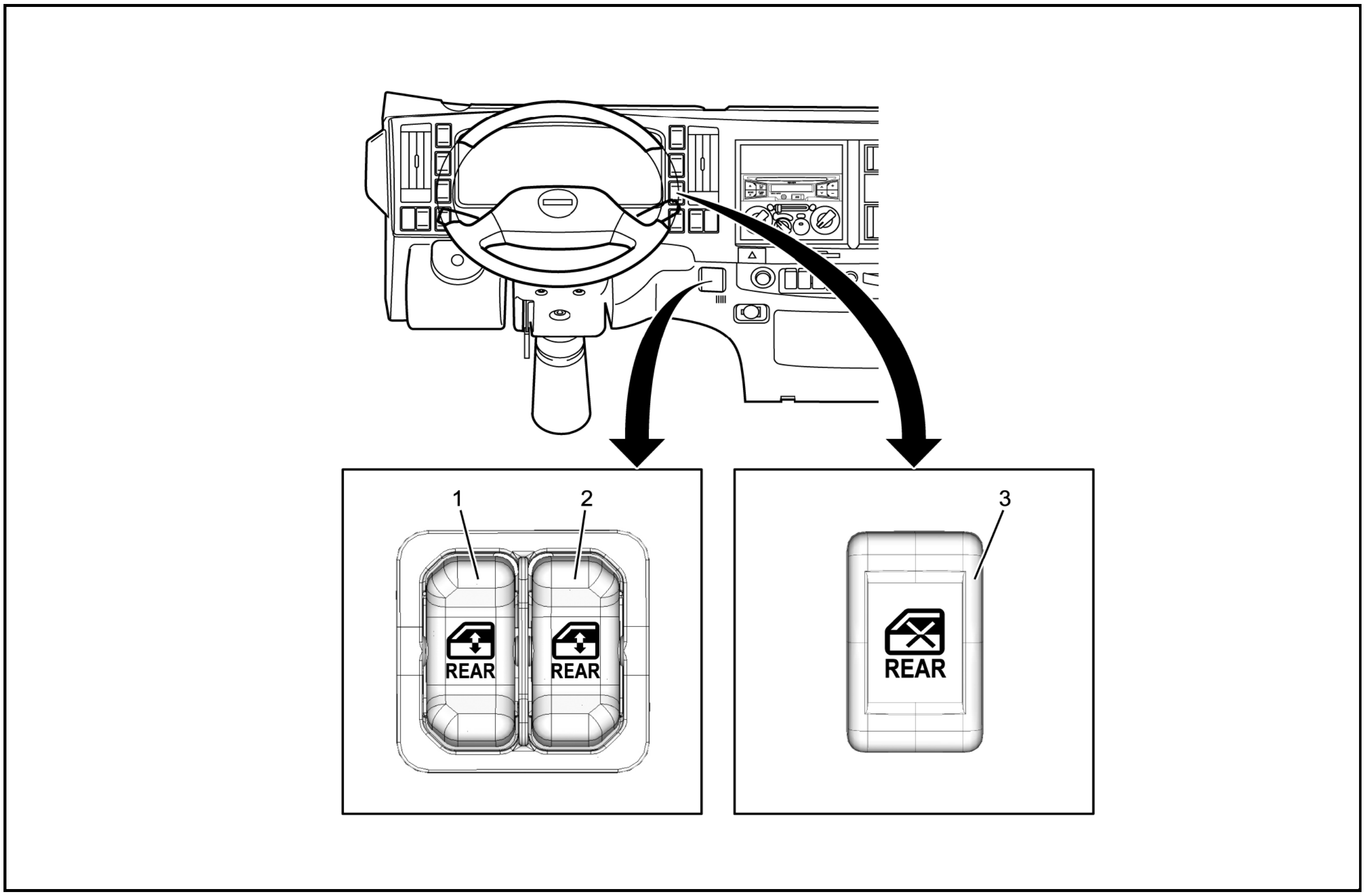
When the ignition switch is turned on, the battery voltage is applied to each of the power window switches through the circuit breaker and the power window relay on the circuit.

By operating the switches of each window to select “UP” or “DOWN”, the revolving direction of the power window motor changes to open or close the window.

The driver’s power window switch has a built-in one-touch operating circuit which allows to automatically open the window by operating the switch to the AUTO position.

When the driver's side power lock switch at the driver's side is depressed, the power source to the passenger's side power window switches will be shut off and passenger's side power window motor will not operate if the switch is operated.

Power Window Switch Location



4557671

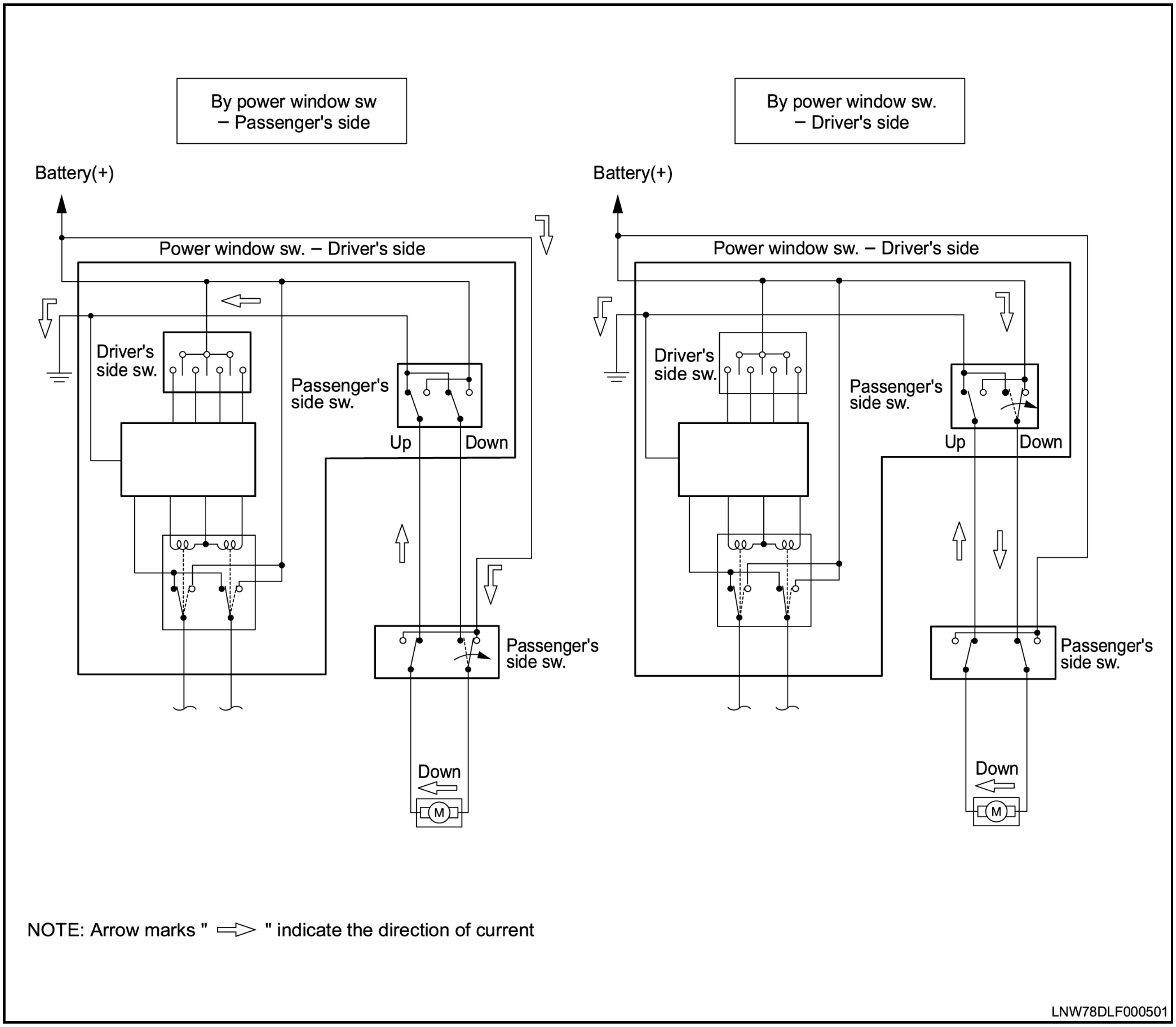
Legend

(1) Rear Power Window Switch LH

(2) Rear Power Window Switch RH

(3) Rear Window Lock Switch

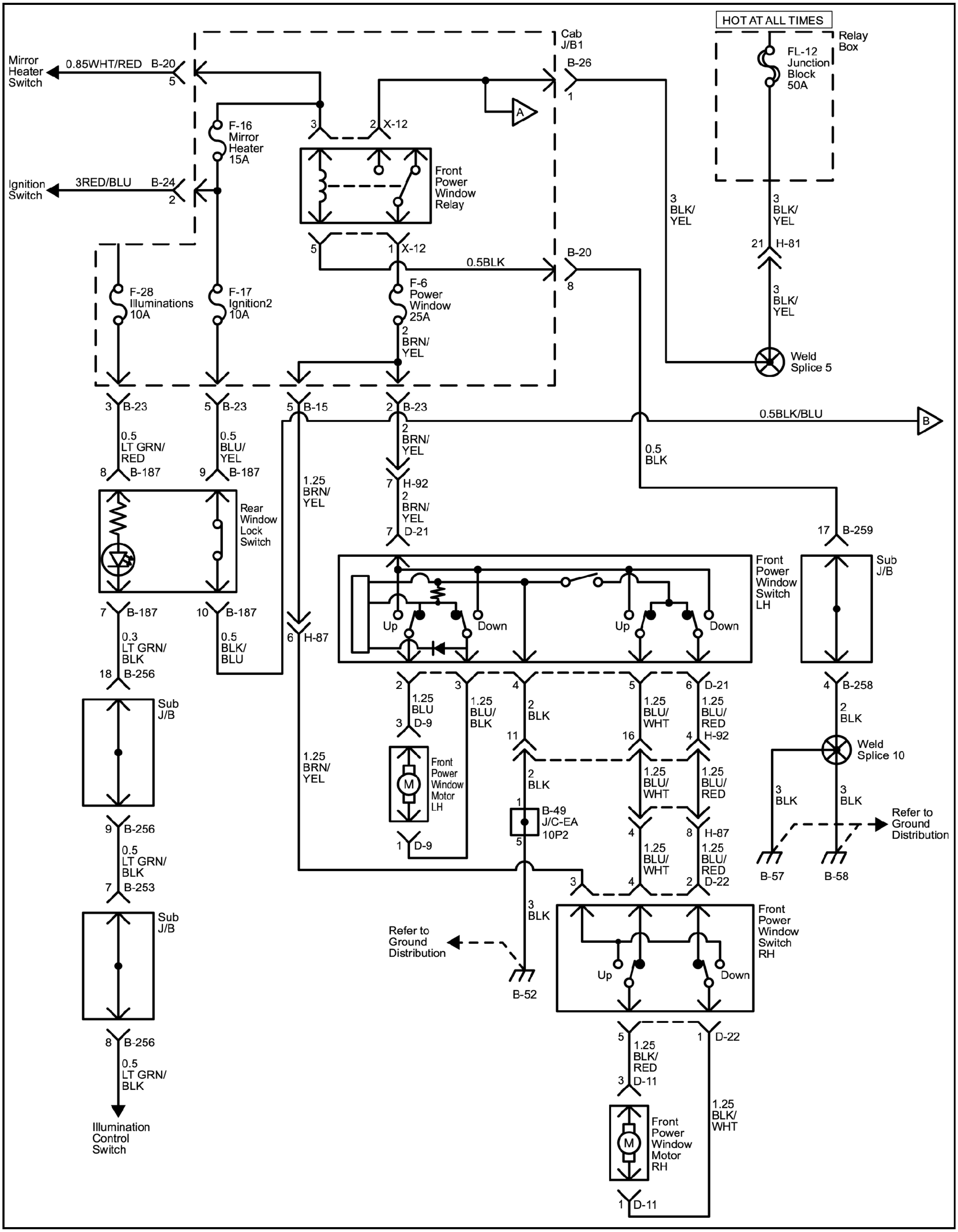
Operation of Passenger Side Window


By power window sw – Passenger's side
By power window sw. – Driver's side
Battery(+)
Power window sw. – Driver's side
Driver's side sw.
Passenger's side sw.
Up
Down
Passenger's side sw.
Down
M
Battery(+)
Power window sw. – Driver's side
Driver's side sw.
Passenger's side sw.
Up
Down
Passenger's side sw.
Down
M
NOTE: Arrow marks " ⇨ " indicate the direction of current
LNW78DLF000501

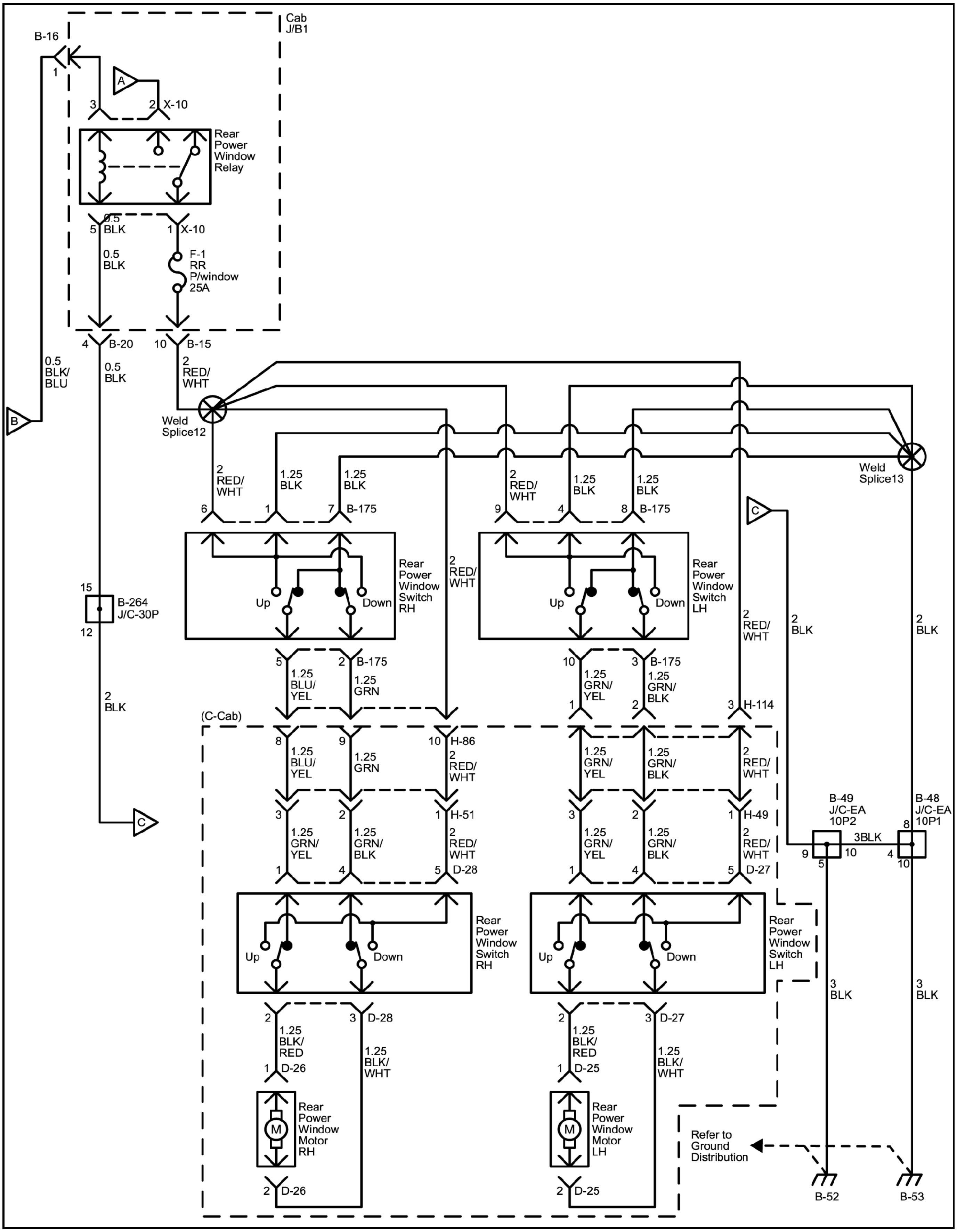
4496952

Schematic and Routing Diagrams

Power Window Schematics


HOT AT ALL TIMES
Relay Box
FL-12 Junction Block 50A
Cab J/B1
Mirror Heater Switch
0.85WHT/RED
B-20
5
B-26
1
F-16 Mirror Heater 15A
3
2
X-12
A
Front Power Window Relay
Ignition Switch
3RED/BLU
B-24
2
3 BLK/ YEL
3 BLK/ YEL
21
H-81
3 BLK/ YEL
B-20
5
1
X-12
0.5BLK
8
F-28 Illuminations 10A
F-17 Ignition2 10A
F-6 Power Window 25A
2 BRN/ YEL
Weld Splice 5
3
B-23
5
B-23
5
B-15
2
B-23
0.5BLK/BLU
B
0.5 LT GRN/ RED
0.5 BLU/ YEL
2 BRN/ YEL
0.5 BLK
8
B-187
9
B-187
1.25 BRN/ YEL
7
H-92
2 BRN/ YEL
7
D-21
17
B-259
Rear Window Lock Switch
Front Power Window Switch LH
Sub J/B
Up
Down
Up
Down
7
B-187
10
B-187
6
H-87
0.3 LT GRN/ BLK
0.5 BLK/ BLU
18
B-256
2
3
4
5
6
D-21
4
B-258
1.25 BLU
1.25 BLU/ BLK
2 BLK
1.25 BLU/ WHT
1.25 BLU/ RED
2 BLK
Sub J/B
3
D-9
11
16
4
H-92
Weld Splice 10
1.25 BRN/ YEL
Front Power Window Motor LH
2 BLK
1.25 BLU/ WHT
1.25 BLU/ RED
3 BLK
3 BLK
1
B-49 J/C-EA 10P2
5
Refer to Ground Distribution
9
B-256
4
8
H-87
0.5 LT GRN/ BLK
1
D-9
1.25 BLU/ WHT
1.25 BLU/ RED
B-57
B-58
7
B-253
3
4
2
D-22
Sub J/B
3 BLK
Front Power Window Switch RH
Refer to Ground Distribution
Up
Down
B-52
8
B-256
5
1
D-22
0.5 LT GRN/ BLK
1.25 BLK/ RED
3
D-11
1.25 BLK/ WHT
Illumination Control Switch
Front Power Window Motor RH
1
D-11

4557674


Cab
J/B1
B-16
1
A
3
2 X-10
Rear
Power
Window
Relay
5
0.5
BLK
1 X-10
0.5
BLK
F-1
RR
P/window
25A
4 B-20
10 B-15
0.5
BLK/
BLU
0.5
BLK
2
RED/
WHT
B
Weld
Splice12
2
RED/
WHT
1.25
BLK
1.25
BLK
6
1
7 B-175
2
RED/
WHT
1.25
BLK
1.25
BLK
9
4
8 B-175
Weld
Splice13
C
15
B-264
J/C-30P
12
Up
Down
Rear
Power
Window
Switch
RH
2
RED/
WHT
Up
Down
Rear
Power
Window
Switch
LH
2
RED/
WHT
2
BLK
2
BLK
5
2 B-175
1.25
BLU/
YEL
1.25
GRN
10
3 B-175
1.25
GRN/
YEL
1.25
GRN/
BLK
1
2
3 H-114
2
BLK
(C-Cab)
8
9
10 H-86
1.25
BLU/
YEL
1.25
GRN
2
RED/
WHT
1.25
GRN/
YEL
1.25
GRN/
BLK
2
RED/
WHT
3
2
1 H-51
3
2
1 H-49
C
B-49
J/C-EA
10P2
B-48
J/C-EA
10P1
1.25
GRN/
YEL
1.25
GRN/
BLK
2
RED/
WHT
1.25
GRN/
YEL
1.25
GRN/
BLK
2
RED/
WHT
8
3BLK
9
5
10
4
10
1
4
5 D-28
1
4
5 D-27
Rear
Power
Window
Switch
RH
Up
Down
Up
Down
Rear
Power
Window
Switch
LH
3
BLK
3
BLK
2
3 D-28
2
3 D-27
1.25
BLK/
RED
1.25
BLK/
WHT
1.25
BLK/
RED
1.25
BLK/
WHT
1 D-26
1 D-25
M
Rear
Power
Window
Motor
RH
M
Rear
Power
Window
Motor
LH
Refer to
Ground
Distribution
2 D-26
2 D-25
B-52
B-53

4557678

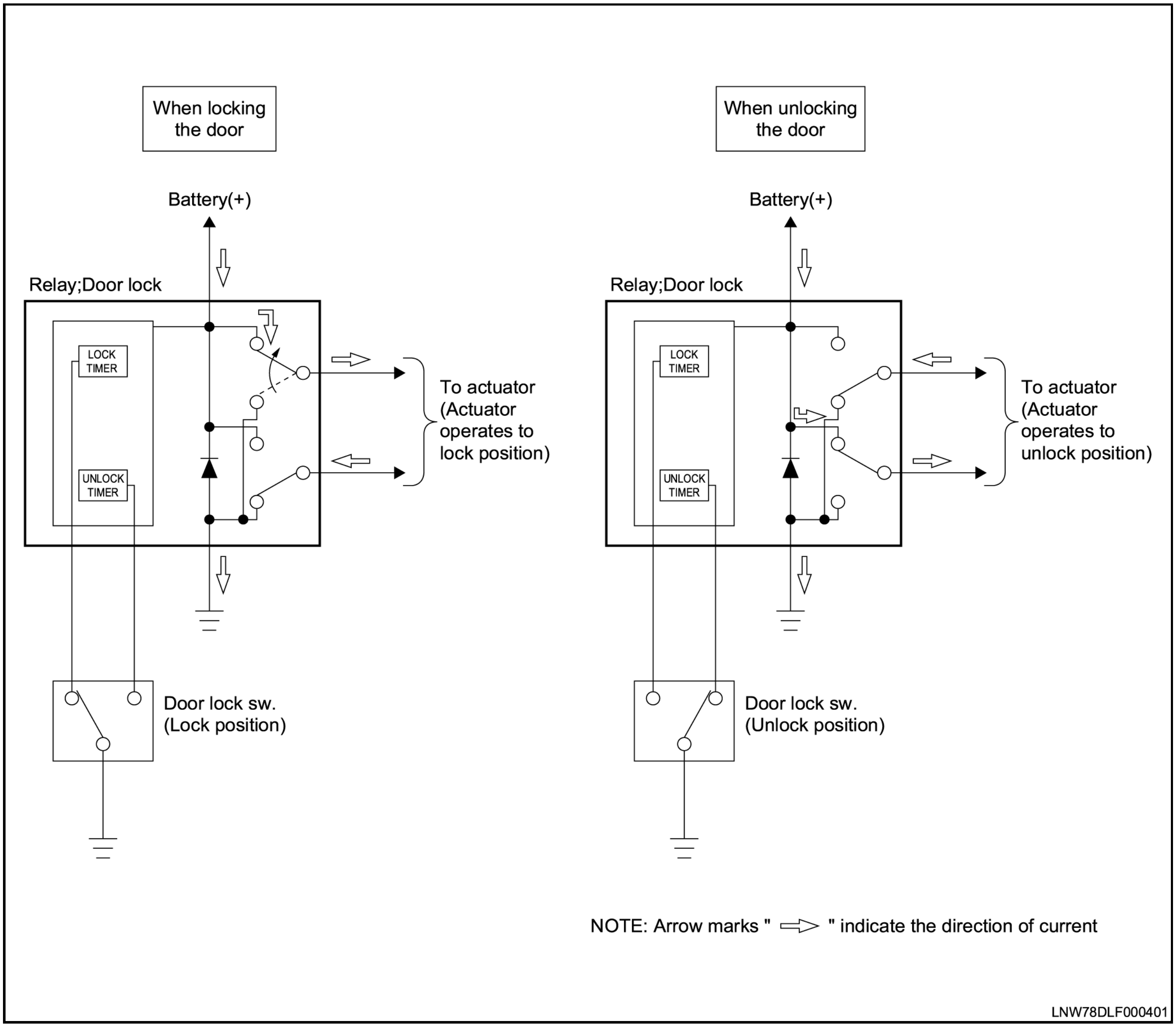
Description and Operation

Power Door Locks Circuit Description

The circuit consists of the door lock switch, actuator for the front passenger side door, and the door lock controller.

The door lock relay is always provided with battery voltage. The key or the inside lock knob on the drivers side door can activate the lock mechanism of all the doors.

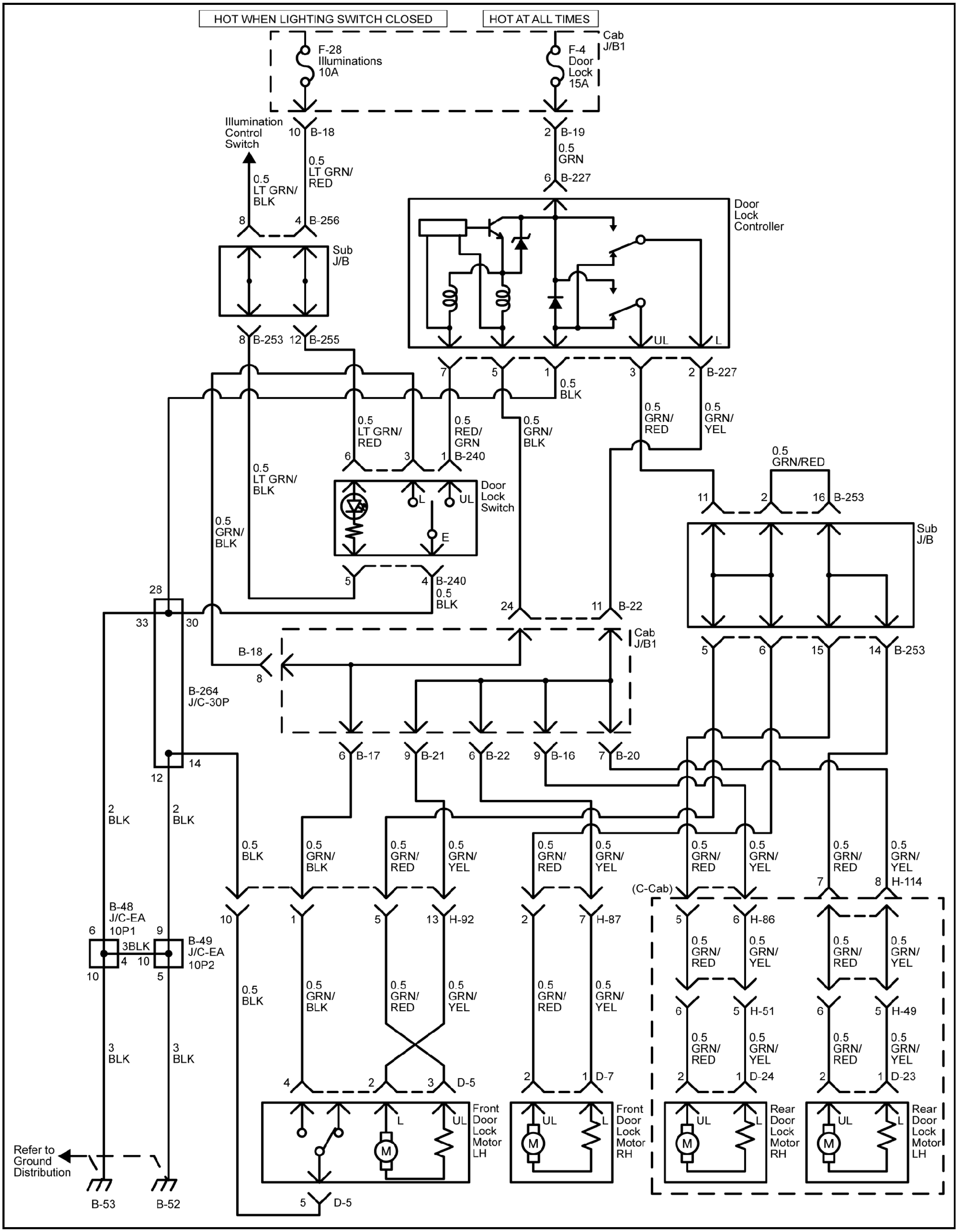
When the drivers side door lock switch is turned on, current flows for about one second to the door lock actuator of each door connected in parallel with the relay to activates the actuator to lock and unlock the doors.


When locking the door
Battery(+)
Relay;Door lock
LOCK TIMER
UNLOCK TIMER
To actuator (Actuator operates to lock position)
Door lock sw. (Lock position)
When unlocking the door
Battery(+)
Relay;Door lock
LOCK TIMER
UNLOCK TIMER
To actuator (Actuator operates to unlock position)
Door lock sw. (Unlock position)
NOTE: Arrow marks " ⇨ " indicate the direction of current
LNW78DLF000401

4496990

Schematic and Routing Diagrams

Power Door Lock Schematics


HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-28 Illuminations 10A
F-4 Door Lock 15A
Illumination Control Switch
10 B-18
2 B-19
0.5 GRN
6 B-227
0.5 LT GRN/RED
0.5 LT GRN/BLK
8 4 B-256
Sub J/B
Door Lock Controller
UL L
8 B-253 12 B-255
7 5 1 3 2 B-227
0.5 BLK
0.5 GRN/RED
0.5 GRN/YEL
0.5 LT GRN/RED
0.5 RED/GRN
0.5 GRN/BLK
6 3 1 B-240
Door Lock Switch
L UL E
0.5 GRN/RED
11 2 16 B-253
Sub J/B
5 4 B-240
0.5 BLK
28 33 30
24 11 B-22
B-18 8
Cab J/B1
5 6 15 14 B-253
B-264 J/C-30P
6 B-17 9 B-21 6 B-22 9 B-16 7 B-20
14 12
2 BLK
0.5 BLK
0.5 GRN/BLK
0.5 GRN/RED
0.5 GRN/YEL
(C-Cab)
7 8 H-114
10 1 5 13 H-92
2 7 H-87
5 6 H-86
6 5 H-51
6 5 H-49
B-48 J/C-EA 10P1
6 9
3BLK
4 10
10 5
B-49 J/C-EA 10P2
3 BLK
4 2 3 D-5
2 1 D-7
2 1 D-24
2 1 D-23
Front Door Lock Motor LH
Front Door Lock Motor RH
Rear Door Lock Motor RH
Rear Door Lock Motor LH
M
Refer to Ground Distribution
B-53 B-52
5 D-5

4557685

Description and Operation

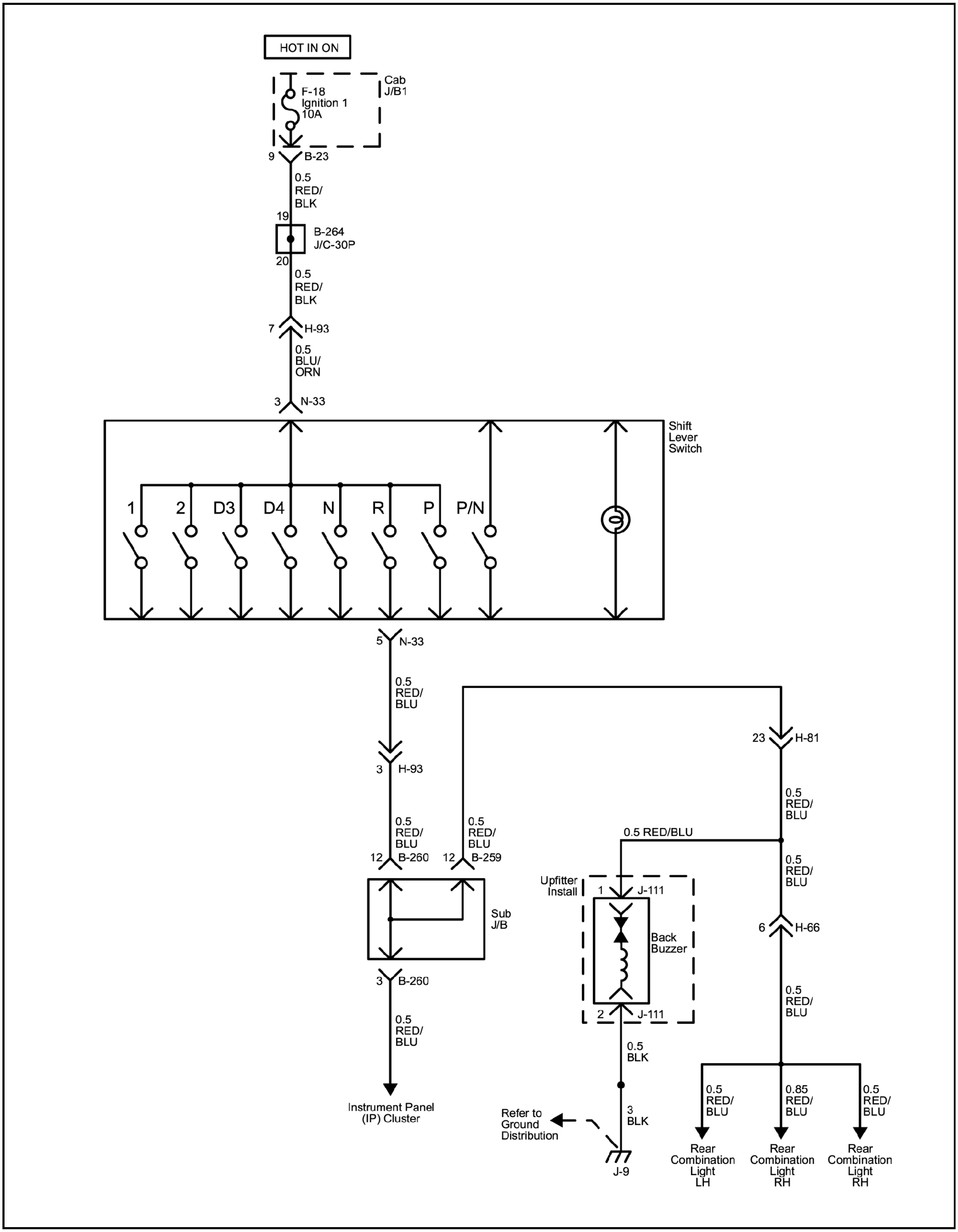
Backup Alarm System Circuit Description

The circuit consists of the backup light switch (or the inhibitor switch) and back buzzer.

When the reverse position is selected, the backup light switch (or the inhibitor switch) is turned ON and the back buzzer sound.

Schematic and Routing Diagrams

Backup Alarm System Schematics


HOT IN ON
Cab J/B1
F-18 Ignition 1 10A
9 B-23
0.5 RED/ BLK
19
B-264 J/C-30P
20
0.5 RED/ BLK
7 H-93
0.5 BLU/ ORN
3 N-33
Shift Lever Switch
1
2
D3
D4
N
R
P
P/N
5 N-33
0.5 RED/ BLU
3 H-93
0.5 RED/ BLU
12 B-260
0.5 RED/ BLU
12 B-259
Sub J/B
3 B-260
0.5 RED/ BLU
Instrument Panel (IP) Cluster
23 H-81
0.5 RED/ BLU
0.5 RED/BLU
0.5 RED/ BLU
Upfitter Install
1 J-111
Back Buzzer
2 J-111
0.5 BLK
3 BLK
Refer to Ground Distribution
J-9
6 H-66
0.5 RED/ BLU
0.5 RED/ BLU
0.85 RED/ BLU
0.5 RED/ BLU
Rear Combination Light LH
Rear Combination Light RH
Rear Combination Light RH

4557687

Description and Operation

Heated Mirror Circuit Description

The circuit consists of the mirror heater switch and the mirror heater.

When the mirror heater switch is turned ON, the mirror heater is operated.

Controller Area Network (CAN) Circuit Description

The circuit consists of the engine control module (ECM), the transmission control module (TCM), the glow controller, VGS control unit, data recording module (DRM) and the instrument panel (IP) cluster. These ECU always communicate each other through the CAN circuit.

The ECM and the TCM have another CAN circuit for communicate with a scan tool. The circuit consists of the ECM, the TCM and the data link connector (DLC).

Data Link Connector Circuit Description

The Data Link Connector (DLC) is the connector for communications and connections with external diagnostic devices (scan tools) and controllers. The Diagnostic Trouble Code (DTC) stored in the ECM, TCM and EHCU memory can be read either through a hand-held diagnostic scanner such as external diagnostic devices plugged into the DLC or by counting the number of flashes of the lamp when the diagnostic test terminal of the DLC is grounded.

E

Engine Identification 1-5

I

Identification, Vehicle 1-3

M

Model Identification 1-3

R

RPO Code List 1-3

V

Vehicle Identification 1-3

BLANK